

**AUTHOR INDEX  
VOLUMES 201-250**

1

.

7

1



- Aarkrog, A. 228(1990)163  
 Aaron, J.J. 205(1988)273, 223(1989)395, 227(1989)181, 227  
 (1989)325, 236(1990)257  
 Abbas, N.M. 235(1990)375  
 Abbink Spink, H. 241(1990)83, 241(1990)95  
 Abdel-Latif, M.S. 221(1989)11  
 Abdullah, M. 233(1990)171  
 Abe, H. 215(1988)155, 219(1989)213, 225(1989)89, 239(1990)73  
 Abe, S. 226(1989)137  
 Abu Nader, P. 248(1991)285  
 Abu Nader, P.R. 249(1991)395  
 Ache, H.J. 211(1988)317  
 Adachi, T. 218(1989)77  
 Adams, F. 216(1989)25, 218(1989)185, 226(1989)43, 228(1990)  
 77  
 Adams, J. 246(1991)187  
 Adeeyinwo, C.E. 214(1988)339  
 Adeniyi, W.K. 207(1988)311  
 Adlercreutz, P. 219(1989)27  
 Adriaens, A. 226(1989)43  
 Advis, J.P. 249(1991)247  
 Afkhami, A. 232(1990)351  
 Afonso, A.M. 202(1987)207  
 Aggarwal, S.K. 224(1989)83  
 Agrawal, C. 237(1990)491  
 Agraz, A. 223(1989)361  
 Agterdenbos, J. 222(1989)159, 232(1990)405, 233(1990)321,  
 237(1990)189, 244(1991)129  
 Agudo, M. 239(1990)211  
 Aguilar, M. 215(1988)283  
 Ahern, A.M. 246(1991)75  
 Ahlgren, M. 217(1989)353  
 Ahmad, A.S. 208(1988)321  
 Ahmad, K. 246(1991)315  
 Ahmed, M.S. 247(1991)235  
 Aime, S. 233(1990)85  
 Aishima, T. 243(1991)293, 248(1991)41  
 Aizawa, M. 250(1991)249  
 Ajayi, F.O. 206(1988)339  
 Akahoshi, R. 244(1991)161  
 Akama, Y. 207(1988)367, 230(1990)175, 230(1990)179  
 Akatsuka, K. 202(1987)223  
 Akeson, M. 225(1989)233  
 Akiba, M. 214(1988)455  
 Alak, A.M. 206(1988)333, 217(1989)171  
 Alarcón, O.M. 214(1988)421  
 Alarie, J.P. 229(1990)169, 236(1990)237  
 Albasini, A. 244(1991)145  
 Al-Bazi, S.J. 245(1991)225  
 Albericio, F. 219(1989)161  
 Alberti, K.G.M.M. 237(1990)99  
 Aldaz, A. 201(1987)295  
 Alder, J.F. 217(1989)289, 222(1989)63, 226(1989)145, 246  
 (1991)259, 248(1991)337  
 Alegret, S. 215(1988)283, 222(1989)373, 231(1990)53, 231  
 (1990)305  
 Aleixo, L.M. 222(1989)379  
 Alemany, M.T. 247(1991)19  
 Alexander, P.W. 208(1988)173, 225(1989)105  
 Alexandratos, S.D. 209(1988)363, 225(1989)323  
 Alfthan, K. 217(1989)43  
 Alieva, E. 240(1990)219  
 Alimonti, A. 248(1991)241  
 Al Joboury, M.I. 243(1991)239  
 Al-Kindy, S.M.Z. 227(1989)145, 227(1989)155  
 Allan, J.R. 240(1990)97  
 Allen, T. 208(1988)343  
 Aller, A.J. 247(1991)19  
 Alley, E.G. 240(1990)41  
 Allison, J. 208(1988)99  
 Allmaier, G.M. 223(1989)349, 241(1990)241, 241(1990)321  
 Almendral Parra, M.J. 220(1989)43  
 Almestrand, L. 209(1988)339  
 Almon, A.C. 249(1991)447  
 Almuaibed, A.M. 214(1988)161, 218(1989)1, 221(1989)337,  
 245(1991)115  
 Alonso, J. 219(1989)345, 222(1989)373, 231(1990)53, 234  
 (1990)221, 241(1990)31  
 Alonso Mateos, A. 220(1989)43, 247(1991)61  
 Alper, J.S. 220(1989)171  
 Al-Sowdani, K.H. 201(1987)339  
 Al-Tamrah, S.A. 202(1987)247, 209(1988)309  
 Altmann, R.S. 232(1990)225  
 Alvarez-Buillia, J. 205(1988)117  
 Alvarez-Coque, M.C.G. 208(1988)1  
 Alwarthan, A.A. 205(1988)261  
 Al-Zamil, I.Z. 207(1988)355, 209(1988)275  
 Al-Zamil, Z.A. 233(1990)307, 239(1990)161  
 Amano, H. 240(1991)371  
 Amato, A. 235(1990)465  
 Ameyama, M. 207(1988)77  
 Amine, A. 242(1991)91  
 Aminot, A. 248(1991)277  
 Amorim, M.T.S. 245(1991)271  
 Anagnostopoulou, P.I. 204(1988)271  
 Ancelin, H. 240(1990)29, 240(1990)81  
 Anderson, F.P. 227(1989)135  
 Anderson, H.A. 232(1990)3  
 Ando, T. 222(1989)121  
 Andrawes, F. 236(1990)221  
 Andrews, A.R.J. 227(1989)65  
 Aneva, Z. 211(1988)311, 236(1990)385  
 Ang, K.P. 221(1989)205  
 Angellotti, M.A. 205(1988)229  
 Anton, S. 230(1990)145  
 Antonova, K. 240(1990)219  
 Antranikian, G. 238(1990)211, 249(1991)113  
 Antuch, W. 239(1990)301  
 Anwar, J. 207(1988)259  
 Anzai, J.-I. 248(1991)323  
 Aoki, I. 218(1989)111  
 Aoyagi, M. 214(1988)229  
 Appelqvist, R. 206(1988)49, 216(1989)299, 235(1990)265, 246  
 (1991)283  
 Appriou, P. 209(1988)249, 232(1990)331  
 Apte, S.C. 212(1988)1, 235(1990)287  
 Aragaki, M. 246(1991)405  
 Arai, Y. 239(1990)107  
 Arakawa, S. 214(1988)415  
 Araujo, A.N. 234(1990)67  
 Archambault, J. 249(1991)231  
 Arcos, J. 236(1990)299

- Arefyev, A.A. 237(1990)285  
 Arenas, A. 229(1990)153  
 Arenas, R.V. 246(1991)113  
 Arends, J. 247(1991)255  
 Arhnmwunde, S.O. 226(1989)337  
 Ariel, M. 228(1990)117, 234(1990)161, 234(1990)475  
 Aries, F. 232(1990)245  
 Arikawa, Y. 229(1990)191  
 Arima, S. 237(1990)201  
 Ariño, C. 206(1988)65  
 Arita, A. 229(1990)121  
 Armanino, C. 202(1987)175  
 Armstrong, D.W. 208(1988)275, 234(1990)365, 244(1991)21  
 Arndal, A. 216(1989)243  
 Arnezeder, Ch. 225(1989)129  
 Arnold, M.A. 227(1989)387, 231(1990)231  
 Arpadjan, S. 236(1990)385, 244(1991)123  
 Arruda, M.A.Z. 206(1988)253, 234(1990)153  
 Asai, M. 236(1990)245, 245(1991)145  
 Asakura, K. 214(1988)439  
 Asano, K.G. 225(1989)25  
 Asano, Y. 211(1988)213, 213(1988)69  
 Ash, P.W. 216(1989)147  
 Ashkenazi, P. 248(1991)289  
 Ashworth, D.C. 213(1988)251  
 Ashworth, R.H. 213(1988)23  
 Asperger, L. 201(1987)281  
 Asplund, J. 206(1988)137  
 Assaad, H.N. 208(1988)321  
 Assamoi, A. 204(1988)77  
 Astruc, A. 228(1990)129  
 Astruc, M. 228(1990)129  
 Asuero, A.G. 246(1991)429  
 Atakol, O. 249(1991)427  
 Ataman, O.Y. 248(1991)163  
 Athavale, S.V. 237(1990)325  
 Atkinson, G.H. 218(1989)101  
 Atrashkevich, V.V. 203(1987)43  
 Atsuya, I. 202(1987)223  
 Attanasio, D. 204(1988)145  
 Au, L.S. 230(1990)203  
 Aubeck, R. 238(1990)405  
 Auer, W. 237(1990)451  
 Auffret, N. 207(1988)47  
 Augustyniak, W. 207(1988)325  
 Aures, J. 223(1989)247  
 Avaca, L.A. 239(1990)87  
 Aw, T.-C. 221(1989)205, 234(1990)321  
 Awaad, M.F. 234(1990)339  
 Axelsson, J.P. 213(1988)151  
  
 Babalievski, F.V. 201(1987)241  
 Bacci, M. 207(1988)343  
 Bachas, L.G. 208(1988)43, 222(1989)253, 241(1990)119, 246(1991)103  
 Bächmann, K. 243(1991)191  
 Bäckström, K. 232(1990)301  
 Badocchi, S. 223(1989)293  
 Bador, R. 219(1989)67  
 Baeck, N. 204(1988)63  
 Baeyens, W. 228(1990)93, 229(1990)281, 234(1990)417  
 Baeyens, W.R.G. 205(1988)43, 227(1989)203, 234(1990)187  
 Baeza Baeza, J.J. 223(1989)419, 237(1990)473  
 Baga, A.N. 204(1988)349  
 Bagheri, H. 233(1990)303  
 Bahr, A. 236(1990)273  
 Bahr, U. 241(1990)175  
 Bailey, F. 249(1991)35  
 Bailey, M.P. 201(1987)335  
 Baillie, G.M. 240(1990)97  
 Baláz, Š. 235(1990)195  
 Balcerzak, J. 237(1990)127, 249(1991)433  
 Balcerzak, M. 242(1991)185  
 Balconi, M.L. 214(1988)367, 234(1990)167  
 Baldini, F. 207(1988)343  
 Baldo, M.-A. 219(1989)9, 219(1989)19, 238(1990)357  
 Baldwin, R.P. 206(1988)85, 244(1991)169  
 Balea Otero, T. 247(1991)295  
 Ballarin, B. 244(1991)29  
 Ballew, R.M. 245(1991)121  
 Balogh, M.P. 221(1989)167  
 Baltes, U. 243(1991)311  
 Bangov, I.P. 209(1988)29  
 Baranski, A.S. 239(1990)35  
 Barbeni, M. 235(1990)215  
 Barber, R. 219(1989)345  
 Barbosa, J. 244(1991)183  
 Barceló, D. 234(1990)119, 243(1991)259  
 Bardeletti, G. 222(1989)83  
 Barino, L. 235(1990)229  
 Barker, T.Q. 225(1989)53, 243(1991)157  
 Barliková, A. 247(1991)83  
 Barnett, N.W. 216(1989)147, 238(1990)171, 249(1991)539  
 Barone III, G.C. 248(1991)399  
 Baroni, U. 225(1989)159  
 Bartoli, J. 219(1989)345, 222(1989)373, 231(1990)53, 234(1990)67, 234(1990)221, 241(1990)31  
 Bärtschi, A. 217(1989)359  
 Barzanallana, R.M. 229(1990)153  
 Bassedas, M. 219(1989)161  
 Basu, A.K. 231(1990)133  
 Basu, D. 249(1991)349  
 Basu, S. 248(1991)507  
 Batchelor, M.J. 221(1989)289  
 Bateman, K.P. 246(1991)43  
 Battilotti, M. 221(1989)157  
 Bauer, J. 210(1988)123, 235(1990)155  
 Bauer, T. 241(1990)261  
 Baumer, L. 235(1990)209  
 Bax, D. 232(1990)405, 233(1990)321, 244(1991)129  
 Baxter, D.C. 225(1989)175, 236(1990)377, 249(1991)545  
 Baxter, M. 245(1991)83  
 Bayer, E. 230(1990)171  
 Bayliff, S.W. 224(1989)39  
 Baylocq, D. 201(1987)145  
 Bayne, W.F. 227(1989)189  
 Beaubien, A. 213(1988)165  
 Beaucaire, C. 238(1990)291  
 Beceiro-Gonzalez, E. 236(1990)475  
 Becerro Dominguez, F. 209(1988)205  
 Beck, A. 240(1990)211, 240(1990)215  
 Beckstead, H.D. 240(1991)287  
 Bediye, S. 213(1988)177  
 Beehler, C.L. 201(1987)83

- Beenackers, A.A.C.M. 238(1990)129  
 Beenackers, A.M.Th. 248(1991)553  
 Behringer, C. 233(1990)41  
 Beinrohr, E. 230(1990)163  
 Bélanger, D. 228(1990)311  
 Bélanger, J.M.R. 241(1990)227  
 Bell, M. 229(1990)157  
 Bellomo, M.L. 206(1988)289  
 Belov, S.P. 240(1990)167  
 Bender, J.C. 201(1987)51  
 Bendl, J. 206(1988)173  
 Benet, C. 225(1989)69  
 Benga, J. 204(1988)169  
 Bengraine, K. 223(1989)283  
 Bennett, J.A. 218(1989)85  
 Bennett, M.A. 242(1991)43  
 Benson, R.L. 238(1990)177  
 Benthin, S. 237(1990)165, 247(1991)45  
 Bentley, A.E. 222(1989)63  
 Bera, S.CH. 220(1989)225  
 Bergamin F<sup>o</sup>, H. 214(1988)397, 226(1989)129, 234(1990)207, 245(1991)211  
 Berger, J. 232(1990)409  
 Bergeron, M. 246(1991)365  
 Berggren, P.-O. 206(1988)357  
 Bergkvist, H. 231(1990)93  
 Berglund, B. 236(1990)399  
 Bergman, J.J. 227(1989)57, 227(1989)109  
 Bergveld, P. 229(1990)71, 230(1990)59, 230(1990)67, 231(1990)41, 233(1990)49, 237(1990)71, 238(1990)323, 242(1991)249, 248(1991)307  
 Berman, S.S. 207(1988)291  
 Bermejo, E. 244(1991)49  
 Bermejo-Barrera, A. 236(1990)475, 239(1990)321  
 Bermejo-Barrera, P. 219(1989)79, 231(1990)321, 236(1990)475  
 Bermejo-Martinez, F. 219(1989)79  
 Bermond, A. 223(1989)283  
 Bernhart, G. 220(1989)207  
 Berrettoni, M. 219(1989)153  
 Berridge, J.C. 223(1989)149  
 Berrueta, L.A. 243(1991)115  
 Bershtein, I.Ya. 222(1989)335  
 Berthod, A. 208(1988)1, 209(1988)111, 231(1990)289, 244(1991)21, 244(1991)215  
 Berthoud, T. 220(1989)235  
 Bertolo, P.L. 239(1990)203  
 Bertsch, W. 236(1990)183  
 Berzas Nevado, J.J. 233(1990)289  
 Besada, V. 223(1989)361, 239(1990)301  
 Best, D.J. 213(1988)113  
 Betti, A. 212(1988)165  
 Betti, M. 209(1988)339, 244(1991)15  
 Bettinelli, M. 225(1989)159  
 Betts, T.A. 246(1991)55  
 Beug-Deeb, M.U.D. 218(1989)85  
 Beugelsdijk, T. 215(1988)337  
 Beuvery, E.C. 249(1991)257  
 Beyer, L. 228(1990)229  
 Bhagavathy, V. 242(1991)215  
 Bhatti, M.S. 238(1990)427  
 Bi, H. 247(1991)211  
 Bianco, P. 234(1990)471  
 Biasioli, S. 223(1989)269  
 Biegler, L.T. 210(1988)97  
 Bier, D.M. 247(1991)255  
 Bier, M.E. 231(1990)175  
 Biggart, E. 227(1989)73  
 Bighi, C. 204(1988)189  
 Bila, N. 221(1989)325  
 Bilewicz, R. 201(1987)11  
 Billard, V. 249(1991)367  
 Binder, P. 249(1991)367  
 Binger, M. 233(1990)191  
 Birch, B.J. 229(1990)63, 231(1990)203  
 Birnie, J. 240(1990)97  
 Biron, M.-P. 222(1989)235  
 Bisagni, E. 227(1989)319  
 Bissery, V. 201(1987)145  
 Biziuk, M. 237(1990)1  
 Bjarnason, A. 241(1990)187  
 Blain, S. 232(1990)331  
 Blair, T.L. 222(1989)253  
 Blais, J. 211(1988)333  
 Blanco, C.C. 222(1989)177  
 Blanco, M. 224(1989)23, 226(1989)271, 230(1990)221, 233(1990)159, 234(1990)395  
 Blanco, P.T. 202(1987)141  
 Blanco González, E. 212(1988)181, 225(1989)339, 234(1990)127  
 Blankenstein, G. 248(1991)371  
 Blase, S. 238(1990)55  
 Blauw, J.S. 202(1987)35, 234(1990)285  
 Blet, V. 219(1989)309, 238(1990)117  
 Blevins, D.D. 236(1990)157  
 Blöcker, G. 213(1988)221  
 Blödorn, W. 233(1990)243  
 Bloom, N. 208(1988)151  
 Blum, L.J. 226(1989)331, 235(1990)243, 243(1991)149  
 Blyshak, L.A. 232(1990)239  
 Bo, Z. 235(1990)461  
 Boaretto, A. 230(1990)29  
 Bobbitt, D.R. 221(1989)239  
 Bodalbhai, L. 231(1990)191, 243(1991)33  
 Boelens, H.F.M. 228(1990)209  
 Boens, N. 205(1988)61  
 Boersma, W.J.A. 213(1988)187  
 Bogacki, M.B. 206(1988)215  
 Bögel, H. 206(1988)233  
 Boguslavsky, L.I. 248(1991)155  
 Bohanec, S. 210(1988)63  
 Böhmer, R.G. 215(1988)111, 215(1988)317  
 Boisvert, R. 246(1991)365  
 Boitieux, J.-L. 222(1989)235  
 Bombi, G.G. 206(1988)289, 238(1990)279  
 Bombick, D. 208(1988)99  
 Bomer, J.G. 248(1991)307  
 Bonakdar, M. 224(1989)305  
 Bond, A.M. 204(1988)151, 208(1988)195, 216(1989)177, 235(1990)279, 237(1990)345  
 Bönicke, I.A. 223(1989)411  
 Boniforti, R. 232(1990)337  
 Bonilla, M. 237(1990)181  
 Bontempe'li, G. 208(1988)207, 211(1988)325, 221(1989)27  
 Booi, A.S. 240(1991)383  
 Booksh, K. 239(1990)53

- Borgarello, M. 234(1990)167  
 Borie, G. 241(1990)265  
 Borrull, F. 242(1990)25  
 Bortolus, P. 234(1990)353  
 Bos, A. 233(1990)31  
 Bos, M. 201(1987)117, 211(1988)61, 214(1988)77, 216(1989)307, 222(1989)151, 223(1989)387, 226(1989)171, 229(1990)71, 231(1990)59, 233(1990)31, 233(1990)251, 237(1990)71, 239(1990)245, 247(1991)97, 248(1991)429  
 Boscher, Y. 238(1990)149  
 Both-Miedema, R. 205(1988)175  
 Botros, N. 208(1988)247  
 Boutonnat, M. 218(1989)101  
 Boutron, C.F. 236(1990)391  
 Bouzid, B. 207(1988)337, 211(1988)155, 211(1988)175  
 Bovara, R. 205(1988)229, 227(1989)29  
 Bowers, M.L. 243(1991)43, 248(1991)127  
 Bowyer, J.R. 236(1990)237  
 Boyette, S.E. 206(1988)75  
 Bracey, L. 231(1990)203  
 Brajter-Toth, A. 202(1987)167, 206(1988)75, 231(1990)191, 237(1990)305, 243(1991)33, 246(1991)315  
 Brand, U. 226(1989)87, 238(1990)201  
 Brandes, L. 249(1991)87  
 Brandes, W. 249(1991)25  
 Branca, M. 212(1988)349, 221(1989)279, 238(1990)393, 247(1991)89  
 Brassard, E. 228(1990)311  
 Bräuchle, C. 238(1990)405  
 Braun, M. 220(1989)207  
 Braun, R.D. 221(1989)223  
 Brazier, J.L. 247(1991)249  
 Brekke, T. 223(1989)123  
 Breman, B.B. 238(1990)129  
 Bremle, G. 249(1991)43  
 Brennan, J.D. 237(1990)253  
 Brenton, A.G. 247(1991)161, 247(1991)177, 247(1991)187  
 Bresee, R.R. 225(1989)185  
 Breyer, P. 201(1987)23, 201(1987)33  
 Březina, M. 244(1991)15  
 Bridge, T.P. 223(1989)175  
 Bright, F.V. 237(1990)485, 246(1991)55  
 Brilis, G.M. 229(1990)163  
 Brindle, I.D. 229(1990)239  
 Brinkman, U.A.Th. 227(1989)173, 233(1990)181, 236(1990)165  
 Britz, D. 239(1990)87  
 Brizgys, M.V. 228(1990)107  
 Brochot, J.A. 224(1989)329  
 Brock, I.H. 246(1991)23  
 Brodbelt, J.S. 206(1988)239  
 Brodowski, M. 214(1988)121  
 Brolin, S.E. 206(1988)357  
 Brooks, R.R. 204(1988)333, 217(1989)165, 228(1990)139, 232(1990)317, 246(1991)359  
 Brooks, S.H. 209(1988)111, 229(1990)35  
 Brown, E.G. 247(1991)187  
 Brown, R.S. 237(1990)253, 248(1991)541  
 Brown, S.D. 225(1989)37, 225(1989)53  
 Brown, S.M. 218(1989)231  
 Bruce, T.A. 249(1991)413  
 Bruckenstein, S. 237(1990)421  
 Bruins, C.H.P. 212(1988)95  
 Brumley, W.C. 229(1990)163  
 Bruni, P. 240(1991)347  
 Bruno, A.E. 234(1990)259  
 Bubernak, J. 215(1988)337  
 Buch, R.M. 243(1991)157  
 Buch-Rasmussen, T. 231(1990)165, 237(1990)405  
 Buck, C.F. 217(1989)203  
 Buck, R.S. 209(1988)345  
 Buckner, S.W. 246(1990)199  
 Budantsev, A.Yu. 249(1991)71  
 Buffle, J. 232(1990)107, 232(1990)209, 232(1990)225, 237(1990)429, 249(1991)419  
 Bugaevsky, A.A. 249(1991)353  
 Bugner, E. 223(1989)223  
 Bukowsky, H. 224(1989)47  
 Bulska, E. 249(1991)545  
 Bult, A. 202(1987)35, 204(1988)29, 239(1990)171, 248(1991)473, 248(1991)483  
 Bunce, R. 249(1991)263  
 Bunker, V.W. 201(1987)331  
 Børøen, S. 211(1988)223, 219(1989)141  
 Burau, R.G. 220(1989)83, 225(1989)233  
 Burguera, J.L. 214(1988)421, 214(1988)429, 234(1990)253, 238(1990)417  
 Burguera, M. 214(1988)421, 214(1988)429, 234(1990)253, 238(1990)417  
 Burlina, A. 223(1989)293  
 Burlitch, J.M. 233(1990)229  
 Burnison, B.K. 232(1990)107  
 Burns, D.T. 204(1988)359, 204(1988)365, 211(1988)305, 217(1989)177, 217(1989)183, 218(1989)93, 219(1989)323, 225(1989)123, 225(1989)241, 225(1989)449, 243(1991)187, 244(1991)269  
 Burton, J.D. 245(1991)21  
 Busch, K.L. 218(1989)217, 218(1989)231  
 Bussière, L. 224(1989)73  
 Bussink, R.W. 232(1990)405  
 Bustin, R. 202(1987)251  
 Buszewski, B. 208(1988)263  
 Buydens, L.M.C. 235(1990)27  
 Bye, R. 208(1988)347  
 Byers, D.A. 205(1988)89  
 Byhan, H.-G. 223(1989)247  
 Byrne, A.R. 204(1988)63  
 Bysouth, S.R. 214(1988)329  
 Cabella, P. 235(1990)215  
 Cabral, M.F. 245(1991)271  
 Cabrera, C. 246(1991)375  
 Cai, R. 222(1989)205  
 Cai, S. 242(1991)11  
 Cai, X. 212(1988)43  
 Cais, M. 248(1991)289  
 Čákr, M. 230(1990)163  
 Caletka, R. 229(1990)127  
 Calle, J.L. 221(1989)173  
 Callegaro, L. 249(1991)291  
 Callejón Mochón, M. 224(1989)109, 244(1991)89  
 Calokerinos, A.C. 202(1987)241, 204(1988)285, 225(1989)359, 236(1990)463, 239(1990)195  
 Calull, M. 242(1990)25

- Cámara, C. 230(1990)35, 237(1990)181, 243(1991)121, 247(1991)7
- Camões, M.F.G.F.C. 239(1990)129
- Campanella, L. 221(1989)157
- Campi, G.L. 224(1989)225, 224(1989)275, 224(1989)363
- Campiglia, A.D. 208(1988)21, 225(1989)415, 231(1990)289, 236(1990)257, 244(1991)215
- Canada, R.G. 205(1988)77
- Cañas, P. 201(1987)295
- Cañete, F. 211(1988)287, 214(1988)375, 224(1989)127, 224(1989)169
- Canham, J.S. 209(1988)157, 214(1988)385
- Caniato, R. 232(1990)253
- Canizaro, P.C. 249(1991)169
- Cano Pavón, J.M. 217(1989)363, 224(1989)153, 241(1990)153
- Capilla, C. 212(1988)309
- Capomacchia, A.C. 205(1988)207, 227(1989)37
- Cappelletti, E.M. 232(1990)253
- Carabias Martínez, R. 209(1988)205, 228(1990)317
- Carbonell, V. 238(1990)417
- Carchon, H. 219(1989)247
- Cardoso De Faria, L. 245(1991)183
- Cardwell, T.J. 204(1988)329, 214(1988)359, 214(1988)433, 219(1989)135, 221(1989)139, 234(1990)409
- Carlisle, G.O. 240(1991)389
- Carmona, M. 218(1989)313
- Carnahan, J.W. 233(1990)149
- Carnero, C. 205(1988)139, 205(1988)149
- Caroli, S. 248(1991)241
- Carpenter, R. 209(1988)135
- Carpenter, S.E. 246(1991)85, 249(1991)305
- Carpentier, R. 249(1991)55
- Carr, P.W. 215(1988)131
- Carr, R.H. 202(1987)251
- Carr-Brion, K.G. 238(1990)11
- Carrea, G. 205(1988)229, 227(1989)29
- Carrillo, F. 243(1991)121
- Carrion, N. 231(1990)283
- Casassas, E. 206(1988)65, 206(1988)189, 223(1989)257, 229(1990)93, 248(1991)447
- Cascione, M.L. 227(1989)29
- Casella, I.G. 243(1991)61, 248(1991)117
- Casey, H. 227(1989)379
- Cassell, D.K. 240(1990)41
- Cassidy, J. 234(1990)479
- Castano, A. 234(1990)193
- Castro, A.R. 241(1990)153
- Cataldi, T.R.I. 207(1988)183, 248(1991)117
- Catena, G.C. 237(1990)485, 246(1991)55
- Cattrall, R.W. 204(1988)329, 208(1988)283, 214(1988)359, 214(1988)433, 219(1989)135, 221(1989)139
- Causà, M. 233(1990)85
- Causserand, C. 231(1990)309
- Cave, M.R. 223(1989)403
- Ceccon, L. 248(1991)51
- Cecil, T.L. 250(1991)37
- Čenas, N.K. 243(1991)167
- Cenderelli, G. 207(1988)161
- Centrich, F. 234(1990)269
- Cepeda-Saez, A. 211(1988)333, 227(1989)319
- Cerdà, V. 228(1990)293, 233(1990)159, 239(1990)151, 249(1991)513
- Cerdà Martín, V. 242(1991)143
- Černá, J. 209(1988)357
- Cerny, R.L. 250(1991)105
- Cetnar, J. 236(1990)417
- Cevolani, M. 244(1991)145
- Cha, G.S. 208(1988)31, 237(1990)115
- Chabala, J.M. 241(1990)299
- Chacon, A. 240(1991)395
- Chakrabarti, A.K. 206(1988)345, 217(1989)363
- Chakraborti, D. 228(1990)77
- Chakraborty, D. 218(1989)341
- Chalk, P.M. 245(1991)49
- Chalom J. 223(1989)309
- Chan, L.H. 232(1990)323
- Chan, W.H. 218(1989)157, 230(1990)203, 246(1991)443
- Chana, B.S. 246(1991)351
- Chang, H. 248(1991)85
- Chang, S.-M. 249(1991)323
- Chang, W.-B. 237(1990)497, 248(1991)589
- Chang, X. 245(1991)13
- Chao, W.-F. 215(1988)259
- Chapin, T.P. 249(1991)469
- Chapoteau, E. 241(1990)127
- Charlier, J. 220(1989)187
- Chartrand, J. 249(1991)55
- Chatterjee, A. 248(1991)507
- Chattopadhyay, N. 231(1990)133
- Chau, L.-K. 217(1989)31
- Chaudhri, S.A. 233(1990)165
- Chaudron, H. 247(1991)249
- Chaumeil, H. 232(1990)331
- Chauret, N. 249(1991)231
- Chauvet, J.-M. 235(1990)299
- Chauvin, Y. 240(1991)299
- Chaves, S. 245(1991)271
- Chayama, K. 248(1991)511
- Chen, C.-Y. 243(1991)9
- Chen, D. 221(1989)345, 222(1989)205, 226(1989)221, 230(1990)137, 234(1990)345, 235(1990)337, 245(1991)49
- Chen, G. 240(1991)353
- Chen, G.N. 236(1990)495
- Chen, H. 208(1988)337
- Chen, L. 201(1987)117
- Chen, Q. 228(1990)163
- Chen, S. 227(1989)165
- Chen, S.-H. 246(1991)65
- Chen, T.K. 232(1990)397
- Cheng, H.N. 242(1991)43
- Cheng, J.-K. 237(1990)311
- Cheng, W.-M. 221(1989)353
- Cheng, W.-T. 234(1990)487
- Cheng, Y.F. 229(1990)295
- Cherpin, H. 247(1991)249
- Chi, H. 235(1990)273
- Chi, H.-L. 235(1990)195
- Chiarelli, M.P. 228(1990)169
- Chicharro, M. 244(1991)49
- Childers-Peterson, T. 202(1987)167
- Chimege, J. 243(1991)81
- Chimpalee, D. 204(1988)365, 211(1988)305, 243(1991)187
- Chimpalee, N. 217(1989)177, 217(1989)183, 225(1989)123, 225(1989)241, 225(1989)449, 243(1991)187

- Chiswell, B. 249(1991)519  
 Chiu, C.M.L. 218(1989)157  
 Choi, W.K. 230(1990)203  
 Chou, T.-C. 222(1989)263  
 Chow, A. 238(1990)423  
 Chow, P.Y.T. 246(1991)23  
 Christenhusz, A. 201(1987)117  
 Christensen, L.H. 249(1991)123  
 Christian, G.D. 204(1988)7, 214(1988)197, 224(1989)373, 234(1990)31, 249(1991)77, 249(1991)451  
 Christie, B.D. 216(1989)57  
 Christie, O.H.J. 223(1989)45  
 Chu, F. 227(1989)73  
 Chuanjie, G. 210(1988)169  
 Chung, H.K. 243(1991)89  
 Chung, S. 249(1991)77  
 Chute, G.S. 234(1990)445  
 Ci, Y.-X. 212(1988)285, 233(1990)299, 237(1990)497, 248(1991)589  
 Cinza, A. 239(1990)301  
 Cittanova, N. 227(1989)129  
 Claassen, E. 213(1988)187  
 Claes, P. 249(1991)227  
 Clapp, P.A. 218(1989)331, 243(1991)217  
 Clark, B.R. 215(1988)13  
 Clarke, J.R.P. 238(1990)3  
 Clarke, R.T. 227(1989)379  
 Cleland, A. 228(1990)145  
 Clerc, J.-T. 206(1988)161, 206(1988)173, 235(1990)93  
 Cleven, R.F.M.J. 232(1990)141  
 Clinch, J.R. 214(1988)401, 227(1989)379  
 Clint, J.H. 240(1990)81  
 Clodfelter, D.K. 249(1991)201  
 Coale, K.H. 249(1991)469  
 Cobben, P.L.H.M. 248(1991)307  
 Cocho De Juan, J.A. 231(1990)321  
 Cocker, J. 246(1991)351  
 Coco-Martin, J.M. 249(1991)257  
 Coelho, J. 201(1987)325, 224(1989)23, 226(1989)271, 230(1990)221, 233(1990)159, 234(1990)395  
 Coene, J. 227(1989)303  
 Coenegracht, P.M.J. 209(1988)1, 212(1988)95  
 Colapicchioni, C. 221(1989)157  
 Collins, H.H. 228(1990)155  
 Colmsjö, A.L. 208(1988)183  
 Comisarow, M.B. 241(1990)187  
 Compañó, R. 227(1989)219  
 Comtat, M. 208(1988)295, 231(1990)309  
 Connor, M. 224(1989)65  
 Connor, M.P. 229(1990)139  
 Contado, M.J. 246(1991)187  
 Conterno, M. 235(1990)215  
 Conti, C. 240(1991)347  
 Contolini, N. 217(1989)171  
 Cook, E.J. 213(1988)131  
 Cook, R.L. 217(1989)101, 226(1989)153  
 Cooks, R.G. 206(1988)239, 215(1988)223, 228(1990)1, 231(1990)175  
 Cooper, J.M. 237(1990)99, 245(1991)57  
 Copin, A. 208(1988)331  
 Coppi, S. 212(1988)165  
 Corbisier, V. 234(1990)187  
 Corcoran, C.A. 224(1989)315  
 Cordatore, M. 221(1989)157  
 Cordero, A. 239(1990)203  
 Cordfunke, E.H.P. 240(1991)383  
 Cornelis, R. 211(1988)231  
 Corona, G. 249(1991)291  
 Cortes, H.J. 236(1990)173  
 Cortina, J.L. 234(1990)119  
 Cosano, J.S. 221(1989)173  
 Čosović, B. 232(1990)131  
 Costa, J. 245(1991)271  
 Costa García, A. 233(1990)281  
 Costantino, L. 244(1991)145  
 Cote, G. 248(1991)235  
 Cotter, R.J. 247(1991)283  
 Coulet, P.R. 222(1989)83, 226(1989)331, 231(1990)27, 235(1990)243, 239(1990)1, 243(1991)149  
 Coury, Jr., L.A. 237(1990)141  
 Covington, A.K. 223(1989)441, 239(1990)129  
 Cowan, D. 249(1991)195  
 Cowan, F.J. 236(1990)423  
 Cowan, J.A. 241(1990)281  
 Craig, A.G. 249(1991)215  
 Craig, P.J. 248(1991)563  
 Crane, M. 238(1990)171  
 Creager, S.E. 246(1991)233  
 Creaser, C.S. 233(1990)303  
 Creme, S. 205(1988)97  
 Crisp, P.T. 244(1991)197  
 Crisponi, G. 222(1989)359, 239(1990)157  
 Cristante, M. 229(1990)267  
 Cristofol Alcaraz, E. 224(1989)153  
 Cromer, M. 212(1988)105  
 Cronenberg, C. 242(1991)275  
 Cronholm, T. 247(1991)277  
 Crouch, S.R. 224(1989)263  
 Croucher, M.C. 236(1990)423  
 Crowder, G.A. 240(1991)317, 240(1991)389  
 Cruces Blanco, C. 205(1988)139, 205(1988)149  
 Cruz Moreno, M. 230(1990)35  
 Csöregi, E. 249(1991)43, 250(1991)203  
 Cukrowski, I. 225(1989)391  
 Cullen, D.C. 231(1990)33  
 Cullen, P. 209(1988)299  
 Cummins, N.H.O. 236(1990)423  
 Curran, D.J. 206(1988)385, 247(1991)67  
 Cutter, G.A. 235(1990)419  
 Cyfert, M. 226(1989)351  
 Czech, B.P. 241(1990)127  
 Czichon, P. 204(1988)213  
 Dabek-Zlotorzynska, E. 246(1991)315  
 Daems, D. 205(1988)61  
 Dahlgaard, H. 228(1990)163  
 Dalangin, R.R. 246(1991)309  
 Dale, J. 211(1988)223  
 Dalgarno, B.G. 218(1989)93  
 Dallinga, J.W. 241(1990)219  
 Daly, P. 232(1990)149  
 Damerau, W. 218(1989)179  
 Damodaran, A.D. 242(1991)215  
 Dams, R. 211(1988)91, 220(1989)257, 226(1989)193, 236(1990)



- 371, 242(1991)203, 244(1991)115, 244(1991)259, 247(1991)133  
 Dan, S.-L. 209(1988)213  
 Daniele, S. 208(1988)207, 211(1988)325, 219(1989)9, 219(1989)19, 238(1990)357, 244(1991)29  
 Daniels, I. 213(1988)207  
 Daniels, R.S. 248(1991)575  
 Danielsson, L.-G. 201(1987)325, 232(1990)301  
 Danna, A.M. 249(1991)405  
 Danzer, J. 249(1991)137  
 Danzer, K. 201(1987)289, 223(1989)247, 242(1991)5, 243(1991)311  
 Dao, N.Q. 215(1988)211  
 Das, A.K. 218(1989)341  
 Das, H.A. 222(1989)159, 233(1990)181  
 Das, J. 219(1989)339, 242(1991)107  
 Dasgupta, P.K. 214(1988)107, 215(1988)277, 220(1989)55, 221(1989)189, 226(1989)165, 226(1989)255, 243(1991)207  
 Datta, P.K. 220(1989)225  
 Daunert, S. 208(1988)43, 222(1989)253  
 Dauphin, J.-F. 235(1990)393  
 Davidson, V.L. 249(1991)235  
 Davies, M.C. 225(1989)369  
 Davies, S.H.R. 248(1991)225  
 Davis, A.A. 238(1990)45  
 Davis, D.M. 232(1990)261  
 Davis, J.M. 246(1991)161  
 Davison, W. 223(1989)441  
 Dawson, B.S.W. 236(1990)423  
 D'Costa, E.J. 243(1991)173  
 De Alwis, W.U. 241(1990)105  
 De Andrade, J.F. 217(1989)187  
 De Bang, M. 249(1991)77  
 De Beer, D. 213(1988)259, 219(1989)351, 242(1991)275  
 De Benzo, Z.A. 224(1989)123, 239(1990)229, 231(1990)283  
 De Boever, J. 205(1988)215, 227(1989)119  
 Debrauwer, L. 241(1990)265  
 De Brucker, N. 220(1989)93  
 De Bruijn, E.A. 247(1991)229  
 De Bruijn, H.E. 238(1990)317  
 Decambox, P. 220(1989)235, 238(1990)291  
 Dechaud, H. 219(1989)67  
 Deen, C. 213(1988)187  
 Deen, D. 205(1988)239  
 DeFillipo, K.A. 249(1991)155  
 De Groot, G. 217(1989)149  
 Deguchi, T. 214(1988)259  
 Dehairs, F. 222(1989)55  
 Deiana, S. 226(1989)315, 248(1991)301  
 De Jong, A.P.J.M. 237(1990)61  
 De Jong, G.J. 236(1990)165  
 De Jong, H.G. 229(1990)93  
 De Kesel, A. 204(1988)63  
 Del Pilar Da Silva De Campos, M<sup>a</sup>. 234(1990)175  
 De la Calle-Guntiñas, M.B. 247(1991)7  
 De la Guardia, M. 224(1989)123, 234(1990)253, 238(1990)417, 242(1991)123  
 De La Guardia Cirugeda, M. 235(1990)405  
 Delannoy, A. 207(1988)85  
 De Lauzon, S. 227(1989)129  
 Delaye, F. 223(1989)395  
 Del Castillo, B. 205(1988)105, 205(1988)117, 205(1988)129, 227(1989)297, 245(1991)217  
 Deleu, R. 208(1988)331  
 Delgado, R. 245(1991)271  
 Delgado Zamarreño, M. 225(1989)247  
 Deligeorgiev, T. 244(1991)123  
 De Ligny, C.L. 222(1989)159  
 De Lurdes Gonçalves, M. 226(1989)229, 226(1989)239  
 Del Valle, M. 219(1989)345, 231(1990)53, 234(1990)67, 241(1990)31  
 Delves, H.T. 201(1987)331  
 De Maine, M.M. 235(1990)7  
 De Maine, P.A.D. 210(1988)73, 235(1990)7  
 De Márquez, O. 215(1988)307  
 Demas, J.N. 245(1991)121  
 De Matteis, F. 241(1990)233  
 Demertzis, M.A. 209(1988)303, 227(1989)211  
 De Moerloose, P. 205(1988)43  
 Demuth, H.-U. 238(1990)331  
 Den Boef, G. 211(1988)99, 216(1989)289  
 Den Hartigh, J. 233(1990)251  
 De Niet, G. 216(1989)307  
 Denis, M. 226(1989)121  
 Deorkar, N.V. 245(1991)27  
 De Pablo, J. 212(1988)123, 215(1988)283, 234(1990)119  
 DePaoli, D.W. 215(1988)13  
 De Pasquale, M.P. 249(1991)291  
 De P. Emerenciano, V. 236(1990)501  
 Derde, M.P. 223(1989)19  
 Dermeik, S. 238(1990)389  
 De Robertis, A. 222(1989)385  
 De Ruig, W.G. 223(1989)277  
 Desage, M. 247(1991)249  
 Desai, H.B. 219(1989)313, 231(1990)133  
 De Schrijver, G. 205(1988)239  
 De Schryver, F.C. 205(1988)61  
 Desideri, D. 220(1989)103  
 Desikan, N.R. 237(1990)325  
 Desimoni, E. 243(1991)61, 248(1991)117  
 De Stefano, C. 222(1989)385, 233(1990)85  
 De Taxis Du Poet, P. 235(1990)255  
 Dettwiler, B. 213(1988)11, 238(1990)101  
 Dever, M. 225(1989)185  
 Devay, P.J. 219(1989)335  
 Devi, S. 225(1989)331, 236(1990)469  
 De Vitre, R.R. 237(1990)429, 249(1991)419  
 Dewaele, C. 234(1989)75  
 Dewaele, J. 220(1989)93, 247(1991)133  
 De Wit, J.C.M. 232(1990)189  
 D'Haese, F. 205(1988)239  
 Dheandhanoo, S. 245(1991)267  
 Diamond, D. 204(1988)223  
 Díaz García, M.E. 212(1988)235, 234(1990)181, 234(1990)233, 238(1990)297  
 Dietrich, F. 224(1989)47  
 Dietz, M.L. 238(1990)263  
 Dijkstra, G. 223(1989)277  
 Di Martino, A. 249(1991)291  
 Dimmock, N.A. 202(1987)49  
 Dimov, N. 201(1987)207, 201(1987)217, 212(1988)317  
 Ding, J. 231(1990)157  
 Ding, T. 234(1990)247  
 Ditzler, M.A. 228(1990)235, 243(1991)103  
 Dix, K.D. 236(1990)43  
 Dmitriev, S.N. 236(1990)483, 243(1991)81, 248(1991)579

- Dobhoff-Dier, O. 222(1989)247  
 Dobos, S. 240(1990)211, 240(1990)215  
 Doe, H. 237(1990)237  
 Doelling, V.W. 241(1990)315  
 Doerffel, K. 238(1990)55  
 Doherty, S.J. 218(1989)217  
 Domenech, J. 222(1989)373  
 Dominguez, E. 213(1988)139, 225(1989)263, 249(1991)145, 250(1991)203  
 Dondi, F. 212(1988)165  
 Dong, Q. 210(1988)181  
 Dong, S. 212(1988)341, 232(1990)367  
 Donovan, M.P. 247(1991)187  
 Doolan, K.J. 202(1987)61  
 Doornbos, D.A. 212(1988)95, 235(1990)41  
 Dorbon, M. 238(1990)149  
 Doretti, L. 224(1989)119, 244(1991)9  
 Dorizzi, R. 223(1989)269, 223(1989)293  
 Dorsey, J.G. 201(1987)67, 209(1988)111, 229(1990)35  
 Dorsey, T. 232(1990)11  
 Dos Santos, M. 226(1989)229, 226(1989)239  
 Dossi, C. 217(1989)197  
 Doumenq, P. 242(1991)137  
 Downs, M.E.A. 249(1991)1  
 Dowrey, A.E. 250(1991)131  
 Drablos, F. 201(1987)225  
 Dremel, B.A.A. 225(1989)293, 234(1990)107, 248(1991)351  
 Drescher, A. 219(1989)273  
 Dressler, J. 240(1991)363  
 Drevenkar, V. 206(1988)299  
 Drews, W. 231(1990)265  
 Driebergen, R.J. 233(1990)251, 234(1990)285  
 Drungiliene, A. 243(1991)287  
 Du, P. 247(1991)211  
 Duan, J. 234(1990)403  
 Dubinskii, R.A. 212(1988)303  
 Ducauze, C.J. 223(1989)283  
 Dudar, E. 247(1991)141  
 Duffy, P. 211(1988)205, 213(1988)267  
 Dugger, D.L. 248(1991)127  
 Duhart, B.T. 208(1988)343  
 Dulac, J.M. 243(1991)103  
 Dulak, J.G. 245(1991)267  
 Dullau, T. 225(1989)253, 249(1991)87  
 Dumont, J. 224(1989)73  
 Dumschat, C. 243(1991)179  
 Dunemann, L. 221(1989)19, 230(1990)1  
 Dunkić, G. 229(1990)221  
 Dunn, I.J. 213(1988)11  
 Duo, R. 201(1987)295  
 Durand, G. 243(1991)259  
 Durand, J.P. 238(1990)149  
 Durig, J.R. 240(1990)19, 240(1990)41  
 Durliat, H. 231(1990)309  
 D'Urso, E.M. 239(1990)1  
 Durst, R.A. 228(1990)107  
 Dütsch, S. 206(1988)173  
 Dutta, P.K. 249(1991)209  
 Dutton, G.G.S. 241(1990)187  
 Duvault-Herrera, Y. 222(1989)373, 231(1990)53  
 Dvořák, Z. 208(1988)307  
 Dykert, J. 249(1991)215  
 Dyne, D. 246(1991)351  
 Džudović, R.M. 202(1987)231  
 Ebdon, L. 209(1988)135, 216(1989)147, 217(1989)157, 225(1989)339, 237(1990)291  
 Ebert, B. 218(1989)179, 243(1991)221  
 Eckert, J.M. 222(1989)169, 236(1990)357  
 Eddowes, M.J. 209(1988)57  
 Edgemon, W.S. 243(1991)207  
 Edkins, T.J. 246(1991)151  
 Edmonds, C.G. 241(1990)167  
 Edmonds, T.E. 207(1988)67, 212(1988)23, 212(1988)331  
 Eenink, R.G. 238(1990)317  
 Efsthathiou, C.E. 204(1988)201, 224(1989)159  
 Egan, C.B. 248(1991)229  
 Egberink, R.J.M. 248(1991)307  
 Eggermont, E. 219(1989)247  
 Egila, J.N. 250(1991)71  
 Egorov, A.M. 227(1989)287, 237(1990)285  
 Egsgaard, H. 226(1989)345  
 Egyed, O. 240(1990)225  
 Eibelhuber, A. 223(1989)95  
 Eickhoff, T. 240(1990)229  
 Einarsrud, M.-A. 240(1990)61  
 Einax, J. 242(1991)5, 243(1991)311  
 Ekins, R. 227(1989)73  
 El-Anwar, F. 248(1991)583  
 El-Bardicy, M.G. 208(1988)321  
 Elderfield, H. 218(1989)265  
 El-Hag, I.H. 226(1989)305, 230(1990)151  
 El Jabri, J. 227(1989)129  
 El-Khateeb, S.Z. 208(1988)321  
 Ellen, G. 237(1990)61  
 El-Nady, A.-B.M. 201(1987)289  
 Elomaa, M. 248(1991)271  
 Elshimer, H.N. 239(1990)145  
 Elsholz, O. 214(1988)121  
 El Walily, A.F. 248(1991)583  
 Emnéus, J. 234(1989)97, 250(1991)203  
 Emons, H. 228(1990)55  
 Endo, M. 226(1989)137  
 Engasser, J.M. 213(1988)231  
 Engelsma, M. 228(1990)209  
 Engh, S.A. 224(1989)211  
 Englbrecht, U. 249(1991)137  
 Enke, C.G. 211(1988)83, 215(1988)169  
 Enkelaar-Willemsen, C. 205(1988)175, 205(1988)243  
 Ensafi, A.A. 244(1991)231  
 Ephraim, J.H. 232(1990)171  
 Eremin, S.A. 227(1989)287, 237(1990)285  
 Erickson, B.C. 218(1989)303  
 Ermakov, A.N. 227(1989)287  
 Espinosa Mansilla, A. 233(1990)289  
 Esteban, M. 206(1988)65, 229(1990)93  
 Estela, J.M. 239(1990)151, 249(1991)513  
 Esteve Romero, J.S. 223(1989)327, 235(1990)317, 242(1991)143  
 Etemad, S. 240(1991)273  
 Evagorou, K.E. 224(1989)339  
 Evans, A.M. 247(1991)161, 247(1991)177  
 Evans, C.E. 246(1991)65  
 Evans, D.F. 218(1989)331, 243(1991)217  
 Evenschor, M. 240(1990)173



- Evmiridis, N.P. 227(1989)211  
 Evtimova, B. 207(1988)373, 232(1990)393  
 Ezquerro, J. 205(1988)117  
 Fachinger, C. 233(1990)207  
 Fadeeva, V.I. 219(1989)201  
 Fagioli, F. 204(1988)189  
 Fahidy, T.Z. 232(1990)401  
 Fainshtein, G. 218(1989)335  
 Fairman, W.D. 238(1990)263  
 Faisca, A.M.M.M. 215(1988)111, 215(1988)317  
 Falk, M. 240(1990)69  
 Fan, S. 241(1990)15  
 Fang, J. 238(1990)399  
 Fang, Y. 244(1991)165  
 Fang, Z. 214(1988)41, 241(1990)15, 245(1991)7  
 Fardy, J.J. 207(1988)103  
 Faridnia, M.H. 245(1991)151  
 Farinotti, R. 217(1989)11, 223(1989)309  
 Farkas, M. 206(1988)161, 206(1988)173  
 Farran, A. 212(1988)123, 234(1990)119  
 Farrell, Jr., J.T. 246(1991)227  
 Favretto, L. 201(1987)253, 220(1989)135, 248(1991)51  
 Favretto, L.G. 201(1987)253, 220(1989)135, 248(1991)51  
 Fedurco, M. 248(1991)109  
 Feinberg, M. 223(1989)223  
 Felinger, A. 248(1991)441  
 Felix-Slinn, T. 237(1990)299  
 Fell, A.F. 223(1989)175, 234(1989)89  
 Fenge, C. 249(1991)113  
 Fennessey, P.V. 241(1990)249  
 Feola, M. 249(1991)169  
 Fernández, L.A. 243(1991)115  
 Fernández Alvarez, J.M. 233(1990)281  
 Fernández-Band, B. 229(1990)177  
 Fernández de la Campa, M.R. 212(1988)235, 234(1990)233, 238(1990)297  
 Fernández Muño, M.A. 247(1991)121  
 Fernandez-Romero, J.M. 219(1989)191  
 Fernando, L.M. 238(1990)251  
 Ferra, M.I.A. 239(1990)129  
 Ferraroli, R. 214(1988)367, 234(1990)167  
 Ferreira, J.R. 206(1988)253  
 Ferrier, R.C. 232(1990)3  
 Ferriol, M. 209(1988)321, 231(1990)161  
 Fidanza, J. 227(1989)325  
 Fiechter, A. 213(1988)199  
 Figuerola, E. 215(1988)283  
 Filella, M. 232(1990)209, 232(1990)225  
 Filippini, R. 232(1990)253  
 Fina, L.J. 240(1991)353  
 Fink, D. 233(1990)101  
 Fischer, P.M. 241(1990)299  
 Fish, J.R. 249(1991)35  
 Fite, W.L. 245(1991)267  
 Fitzgerald, W.F. 208(1988)151  
 Fitzpatrick, C.P. 224(1989)243  
 Flagler, M. 227(1989)251  
 Flanagan, M.T. 213(1988)23  
 Flanjak, J. 207(1988)283  
 Fligier, J. 204(1988)213  
 Flockhart, B.D. 218(1989)93  
 Florence, T.M. 209(1988)97, 228(1990)327, 237(1990)177  
 Flórian, K. 201(1987)289  
 Florido, A. 215(1988)283  
 Flossdorf, J. 218(1989)291  
 Fogarasi, G. 240(1990)159  
 Fojón, D. 230(1990)97  
 Foley, J.P. 231(1990)237, 246(1991)113  
 Fombon, J.J. 211(1988)205  
 Fontain, E. 210(1988)123, 235(1990)155  
 Forman, L.W. 249(1991)101  
 Forsberg, P. 238(1990)223  
 Forshaw, J.A. 223(1989)403  
 Forteza, R. 233(1990)159  
 Forteza Coll, R. 242(1991)143  
 Fortier, G. 228(1990)311  
 Foulds, N.C. 229(1990)57  
 Fournier, F. 241(1990)265  
 Fowler, K. 207(1988)251  
 Fox, C.G. 248(1991)337  
 Fraga-Trillo, L.M. 239(1990)321  
 Fraile, R. 231(1990)283  
 Francis, C.G. 219(1989)45  
 Franco, M.A. 233(1990)143  
 Frankenberger, A. 246(1991)359  
 Frankenberger Jr., W.T. 217(1989)383  
 Franklin, T.C. 207(1988)311, 229(1990)291  
 Frater, Y. 241(1990)233  
 Fraune, E. 249(1991)113  
 Fraústo Da Silva, J.J.R. 245(1991)271  
 Frech, W. 225(1989)175, 236(1990)377, 249(1991)545  
 Freeman, M.K. 241(1990)119  
 Freeman, P.R. 234(1990)409  
 Frei, R.W. 233(1990)181  
 Freiser, B.S. 225(1989)11  
 Freiser, H. 227(1989)397, 242(1991)191, 245(1991)225, 248(1991)315  
 Freitag, R. 249(1991)113  
 Freitas, M.C. 219(1989)317, 223(1989)287  
 Freney, J.R. 245(1991)49  
 Frenzel, W. 214(1988)121, 233(1990)77  
 Frew, J.E. 224(1989)39  
 Friedrich, H.B. 222(1989)221  
 Friehe, V. 201(1987)135  
 Fries, T.L. 239(1990)145  
 Frigge, Ch. 242(1991)99  
 Fritzsche, U. 244(1991)179  
 Fritz, J.S. 204(1988)87, 207(1988)137, 215(1988)311, 229(1990)101, 236(1990)43  
 Fröbe, Z. 206(1988)299  
 Fromageat, A. 234(1990)141  
 Frömer, R. 243(1991)179  
 Fu, C. 230(1990)23  
 Fudagawa, N. 209(1988)281  
 Fuger, J. 220(1989)187, 221(1989)325  
 Fuh, M.-R.S. 224(1989)235  
 Fujita, Y. 217(1989)193, 239(1990)23  
 Fujiwake, S. 223(1989)299  
 Fujiwara, K. 212(1988)245, 246(1991)413  
 Fujiwara, T. 221(1989)249  
 Fukami, T. 230(1990)17  
 Fukasawa, T. 217(1989)23  
 Fukuda, R. 204(1988)113

- Fukuhara, G. 244(1991)239  
 Fukushima, M. 244(1991)281  
 Fukuyama, S. 201(1987)357  
 Fukuyama, T. 236(1990)281  
 Funatsu, K. 220(1989)155  
 Furlan, M. 236(1990)501  
 Furlonger, J. 209(1988)299  
 Fürst, A. 229(1990)17, 233(1990)213, 248(1991)415  
 Furton, K.G. 236(1990)99, 246(1991)171, 248(1991)263  
 Furuichi, R. 244(1991)275  
 Furusawa, M. 215(1988)347, 218(1989)161, 224(1989)133, 236(1990)505, 239(1990)307, 243(1991)183, 244(1991)105, 248(1991)367  
 Fusi, A. 217(1989)197  
  
 Gachanja, A. 250(1991)145  
 Gács, I. 220(1989)1, 241(1990)71  
 Gagliardi, L. 235(1990)465  
 Galal, A. 248(1991)163  
 Galante, L.J. 215(1988)99  
 Galeano, T. 234(1990)263  
 Galianzo, G. 234(1990)353  
 Gallardo Melgarejo, A. 241(1990)153  
 Gallego, B. 234(1990)193  
 Gallego, C. 246(1991)375  
 Gallego, M. 215(1988)233, 215(1988)241, 234(1990)433  
 Gallo, A.A. 221(1989)223  
 Galy, M. 208(1988)295  
 Gamble, D.S. 232(1990)181, 244(1991)135  
 Gamoh, K. 222(1989)201, 228(1990)101, 228(1990)307, 243(1991)251  
 Gan, L.M. 218(1989)345  
 Ganadu, M.L. 239(1990)157  
 Gangaiah, T. 249(1991)533  
 Gangoda, M.E. 225(1989)409  
 Ganz, M. 240(1990)119  
 Gao, J. 245(1991)13  
 Gao, P. 212(1988)201  
 Gao, Z. 229(1990)213, 230(1990)105, 232(1990)367, 236(1990)307, 241(1990)137, 241(1990)161, 244(1991)39  
 Gao, Z.-P. 246(1991)341  
 Garai, T. 204(1988)189  
 Garaj, J. 230(1990)163  
 Garanin, A.V. 203(1987)43  
 Garcia, A.C. 202(1987)141  
 García Alonso, J.I. 225(1989)339  
 García Alvarez-Coque, M.C. 204(1988)247, 220(1989)145, 223(1989)327, 235(1990)317  
 García de María, C. 220(1989)43, 247(1991)61  
 García de María, L. 247(1991)61  
 García-Montelongo, F. 202(1987)207  
 García de Torres, A. 217(1989)363, 224(1989)153  
 García-Olalla, C. 247(1991)19  
 García Sanchez, F. 205(1988)139, 205(1988)149  
 Gardell, D. 227(1989)251  
 Gardies, F. 231(1990)305  
 Gardner, M.J. 212(1988)1, 235(1990)287  
 Garg, A.N. 234(1990)445  
 Garland, E. 229(1990)267  
 Garlick, S.M. 215(1988)325  
 Garn, M.B. 207(1988)225  
 Garnica Meza, J.M. 242(1991)279  
  
 Garrell, R.L. 246(1991)75  
 Garrigues, S. 242(1991)123  
 Gaspar-Galvin, L.D. 222(1989)221  
 Gassmann, E. 213(1988)215  
 Gasteiger, J. 235(1990)65, 235(1990)163, 248(1991)1  
 Gastmans, J.P. 217(1989)85  
 Gauthier, J.W. 246(1991)211  
 Gautier, S.M. 226(1989)331, 235(1990)243, 243(1991)149  
 Gaye, M.D. 205(1988)273, 223(1989)395  
 Gazet, J. 209(1988)321, 231(1990)161  
 Ge, H. 237(1989)149, 238(1990)345  
 Gebauer, C.R. 241(1990)127  
 Geckeler, K.E. 230(1990)171  
 Gehrig, P. 233(1990)295  
 Geiss, S. 242(1991)5  
 Gelb, R.I. 220(1989)171  
 Gélinas, Y. 249(1991)495  
 Gené, J. 224(1989)23  
 Genfa, Z. 243(1991)207  
 Gennari, G. 234(1990)353  
 Gennaro, M.C. 233(1990)85, 239(1990)203  
 Geno, P.W. 242(1991)233  
 George, K. 237(1990)99  
 Geppert, G. 201(1987)281  
 Gernert, M. 244(1991)179  
 Gerrard, D.L. 240(1990)97  
 Gerritse, K. 213(1988)187  
 Gerritsen, M.J.P. 241(1990)23  
 Gervais, P. 227(1989)129  
 Gessa, C. 226(1989)315, 248(1991)301  
 Geusman, M.S. 212(1988)303  
 Gey, M. 213(1988)227  
 Geypens, B. 247(1991)223, 247(1991)243  
 Ghaemmaghami, V. 217(1989)111, 225(1989)369  
 Gheuens, E.O.O. 247(1991)229  
 Ghini, S. 205(1988)229, 227(1989)29  
 Ghoos, Y. 247(1991)223, 247(1991)243  
 Ghosh, D. 247(1991)161, 247(1991)177, 247(1991)187  
 Giam, C.S. 247(1991)235  
 Giannini, I. 221(1989)157  
 Giavarina, D. 223(1989)269  
 Gibbs, A.H. 241(1990)233  
 Gibbs, B.F. 234(1990)465  
 Gibbs, P.N.B. 224(1989)39  
 Giblin, D.E. 250(1991)105  
 Gibson, E.K. 202(1987)251  
 Gibson, T.D. 213(1988)61  
 Giese, R.W. 248(1991)615  
 Giffhorn, F. 249(1991)25  
 Gilbert, B.P. 201(1987)23, 201(1987)33, 240(1991)299  
 Gilbert, M.J.M. 207(1988)103  
 Gilfrich, N.L. 248(1991)541  
 Gill, G. 237(1990)459  
 Gillespie, A.M. 245(1991)259  
 Gillet, G. 241(1990)209  
 Gilmore, D.A. 218(1989)101  
 Gilpin, R.K. 225(1989)409  
 Giné, M.F. 234(1990)207, 245(1991)211  
 Ginelli, E. 249(1991)291  
 Giorgini, E. 240(1991)347  
 Girandi, G. 207(1988)161  
 Girard, J. 247(1991)249

- Girotti, S. 205(1988)229, 227(1989)29  
 Gisin, M. 207(1988)225  
 Gitter, M. 223(1989)247  
 Glish, G.L. 225(1989)25  
 Glodowski, S. 201(1987)11  
 Gloe, K. 224(1989)47, 228(1990)229  
 Gluck, S.J. 214(1988)315  
 Godinho, O.E.S. 222(1989)379  
 Goewi, C.E. 207(1988)305  
 Golaś, J. 221(1989)305  
 Golden, T. 217(1989)343  
 Goldik, R. 234(1990)161  
 Goldschmidt, H.M.J. 211(1988)43  
 Gomez, C. 239(1990)229  
 Gómez, E. 249(1991)513  
 Gómez, M.J. 224(1989)123, 239(1990)229  
 Gómez Ariza, J.L. 224(1989)109, 228(1990)301  
 Gomez Benito, C. 231(1990)259, 245(1991)101  
 Gomez-Hens, A. 225(1989)115, 229(1990)27, 230(1990)145, 242(1991)147  
 Gomišček, S. 226(1989)203  
 Gomy, C. 215(1988)211  
 González, A.G. 228(1990)301, 246(1991)429  
 González, E. 228(1990)265, 242(1991)267  
 Gonzalez, E.R. 239(1990)87  
 González, F. 226(1989)271, 230(1990)221  
 González, I. 246(1991)435  
 González Alvarez, M.J. 234(1990)181  
 González-Dávila, M. 202(1987)207  
 Gonzalez-Robledo, D. 217(1989)239, 228(1990)123  
 Gonzalo Rodriguez, E. 228(1990)317  
 Gooijer, C. 227(1989)173, 232(1990)245  
 Gord, J.R. 225(1989)11  
 Gordon, G. 204(1988)169, 224(1989)383, 225(1989)437  
 Gordon Vergara, A. 216(1989)231  
 Górecki, T. 237(1990)1  
 Görlach, U. 236(1990)391  
 Gorrod, J.W. 247(1991)151  
 Gorski, K.M. 205(1988)161  
 Gorton, L. 206(1988)49, 213(1988)91, 213(1988)139, 225(1989)263, 228(1990)23, 234(1990)13, 234(1989)97, 246(1991)283, 249(1991)43, 249(1991)145, 250(1991)203  
 Gosland, R.M. 250(1991)71  
 Gosztola, D. 212(1988)201  
 Goto, K. 219(1989)239  
 Goto, M. 235(1990)399  
 Gotoh, M. 215(1988)301  
 Goulas, P. 208(1988)295  
 Goyal, R.N. 228(1990)273, 230(1990)91  
 Grabner, E.W. 242(1991)249  
 Graglia, R. 212(1988)171  
 Graham, J.A. 236(1990)141  
 Grahl-Nielsen, O. 222(1989)35  
 Gran, G. 206(1988)111  
 Grant, C.L. 217(1989)217  
 Grases, F. 207(1988)233, 219(1989)89, 229(1990)249  
 Grasselli, M. 233(1990)315  
 Grassy, G. 229(1990)267  
 Gratzl, M. 204(1988)213  
 Grau, C. 249(1991)25  
 Gray, N.A.B. 210(1988)9  
 Grayeski, M.L. 249(1991)155  
 Greaves, M.J. 218(1989)265  
 Green, J.D. 226(1989)183  
 Green, M.J. 221(1989)289, 224(1989)39, 229(1990)57  
 Greenhouse, S. 236(1990)221  
 Greffe, J.L. 219(1989)309  
 Gregor, J.E. 211(1988)141  
 Gregorowicz, Z. 204(1988)213  
 Grekas, N. 202(1987)241, 204(1988)285, 225(1989)359  
 Greve, J. 213(1988)35, 238(1990)317, 238(1990)323  
 Grgić, I. 226(1989)203  
 Griffin, P.R. 225(1989)1  
 Grigorov, G. 240(1990)219  
 Grima, A. 227(1989)219  
 Grimalt, J.O. 201(1987)193, 219(1989)257, 248(1991)59, 249(1991)337  
 Grimes, C. 208(1988)343  
 Griot, M. 213(1988)11  
 Gritzapis, P. 218(1989)37  
 Grootenhuis, P.D.J. 201(1987)117  
 Gross, H. 207(1988)225  
 Gross, M.L. 228(1990)169, 250(1991)105  
 Grosse, P. 240(1990)173, 240(1990)187, 240(1990)229  
 Grossenbacher, H. 213(1988)215  
 Grossmann, O. 203(1987)55, 203(1987)67  
 Grote, M. 201(1987)95, 207(1988)171, 212(1988)273  
 Groussin, J.C. 238(1990)239  
 Grudpan, K. 246(1991)325, 246(1991)329  
 Gründig, B. 222(1989)75  
 Gründler, P. 206(1988)153  
 Gübitz, G. 227(1989)97  
 Gucci, L. 240(1990)211, 240(1990)215  
 Guerrieri, A. 207(1988)183  
 Guglielmetti, R. 209(1988)249  
 Guibard, I. 240(1991)299  
 Guiberteau, A. 234(1990)263  
 Guilbault, G.G. 206(1988)369, 217(1989)187, 221(1989)11, 245(1991)63, 245(1991)151  
 Guiliano, M. 242(1991)137  
 Guillem, A.F. 246(1991)1  
 Guillemin, C.L. 238(1990)17  
 Guilluy, R. 247(1991)249  
 Guiraúm Pérez, A. 224(1989)109, 244(1991)89  
 Guiyun, Z. 215(1988)331  
 Gunasingham, H. 221(1989)205, 229(1990)83, 234(1990)321, 246(1991)309  
 Gündüz, N. 249(1991)427  
 Gündüz, T. 234(1990)339, 249(1991)427  
 Guo, L. 214(1988)41  
 Guo, X. 228(1990)139  
 Gupta, H.O. 235(1990)435  
 Gustafsson, L. 212(1988)133  
 Gustavo González, A. 224(1989)109  
 Gutierrez, M.C. 225(1989)115, 230(1990)145  
 Gutmann, V. 240(1990)199  
 Guzman, N.A. 249(1991)247  
 Haaijman, J.J. 213(1988)187  
 Haaland, D.M. 240(1990)35  
 Haapakka, K. 207(1988)195, 208(1988)69, 209(1988)165, 211(1988)105, 215(1988)341, 233(1990)199  
 Haddad, P.R. 250(1991)21  
 Hadjiioannou, T.P. 224(1989)159, 224(1989)339

- Hadžija, O. 242(1991)221  
 Haerdi, W. 225(1989)303, 231(1990)115  
 Haferkamp, O. 227(1989)227  
 Hagen, D.F. 236(1990)157  
 Haggart, R. 227(1989)257  
 Hagspiel, K. 241(1990)321  
 Hahn-Hägerdal, B. 213(1988)139, 225(1989)263, 249(1991)145  
 Hai-Lin, G. 217(1989)335  
 Hajizadeh, K. 243(1991)23  
 Håkanson, H. 224(1989)31, 249(1991)17, 249(1991)61, 249(1991)163  
 Haladjian, J. 234(1990)471  
 Hale, J.M. 238(1990)257  
 Hale, P.D. 228(1990)23, 228(1990)31, 248(1991)155  
 Hall, G.F. 213(1988)113, 249(1991)1  
 Hall, J.R. 221(1989)189  
 Halsall, H.B. 214(1988)187, 243(1991)23, 248(1991)399  
 Halvatzis, S.A. 227(1989)405  
 Halvax, J.J. 239(1990)171, 248(1991)473, 248(1991)483  
 Hamamoto, O. 225(1989)425  
 Hambidge, K.M. 241(1990)249  
 Hameed, Y.O. 206(1988)379  
 Hamid, H.A. 243(1991)239  
 Hamilton, I.C. 204(1988)329, 208(1988)283, 214(1988)359, 214(1988)433, 219(1989)135, 221(1989)139  
 Hammargren, W.M. 247(1991)201  
 Hammons, K. 249(1991)209  
 Hamon, M. 204(1988)77, 225(1989)217  
 Hámori, T. 227(1989)311, 227(1989)315  
 Hampel, W.A. 225(1989)129  
 Hampp, N. 238(1990)405  
 Han, H.-B. 221(1989)85  
 Han, S.M. 208(1988)275  
 Han, Y.I. 208(1988)275  
 Hanazato, Y. 202(1987)131, 212(1988)49, 231(1990)213  
 Handa, M. 239(1990)107  
 Handel, H. 209(1988)249, 232(1990)331  
 Handke, M. 240(1991)251  
 Haney, M.A. 249(1991)209  
 Hansen, E.H. 214(1988)1, 214(1988)147, 216(1989)257, 230(1990)113, 235(1990)265, 245(1991)89  
 Hansen, H.J.M. 228(1990)163  
 Hara, H. 230(1990)189  
 Hara, S. 215(1988)259, 215(1988)267, 218(1989)173, 221(1989)163  
 Harada, A. 209(1988)333  
 Haraguchi, H. 208(1988)163, 235(1990)399, 243(1991)247  
 Hara-Hotta, H. 247(1991)283  
 Haraldsson, C. 221(1989)77  
 Harder, S. 239(1990)53  
 Harlan, R.J. 240(1990)19  
 Harman, A.R. 239(1990)35  
 Harrick, N.J. 240(1991)251  
 Harriott, M. 217(1989)177, 217(1989)183, 225(1989)123, 225(1989)241, 225(1989)449  
 Harris, F.M. 247(1991)161, 247(1991)177, 247(1991)187  
 Harris Cummings, R. 224(1989)351  
 Hart, B.T. 234(1990)409  
 Hart, J.P. 229(1990)63, 231(1990)203  
 Hart, K.J. 215(1988)169  
 Hartenstein, S.D. 228(1990)279  
 Hartke, B. 240(1990)119  
 Hartland, S. 232(1990)409, 246(1991)347  
 Hartman, K. 233(1990)41  
 Hartmann, M. 242(1991)249  
 Hartofylax, V.H. 224(1989)159  
 Haseloff, R.F. 218(1989)179, 243(1991)221  
 Hassan, Y.A. 233(1990)307, 239(1990)161  
 Haswell, S.J. 242(1991)31, 249(1991)413, 250(1991)257  
 Hata, N. 219(1989)239  
 Hatta, A. 240(1991)371  
 Hatta, M. 201(1987)357  
 Haug, J.-P. 233(1990)41  
 Hauge, S. 243(1991)227  
 Hausbeck, R. 229(1990)127  
 Hauser, P.C. 214(1988)359, 221(1989)139  
 Havezov, I. 219(1989)127  
 Haviland, C.J. 249(1991)201  
 Haworth, D.T. 231(1990)317  
 Hayashi, J. 247(1991)27  
 Hayashi, K. 244(1991)239  
 Hayashi, T. 218(1989)119  
 Hayashi, Y. 201(1987)185, 202(1987)187, 209(1988)45, 212(1988)81, 222(1989)301, 222(1989)313  
 Hayes, C.M.G. 250(1991)1  
 He, A. 201(1987)135  
 He, H. 246(1991)251  
 He, H.-B. 237(1990)497  
 Head, D.M. 210(1988)73  
 Headridge, J.B. 201(1987)311  
 Héberger, K. 223(1989)161  
 Hechler, J.-J. 217(1989)135  
 Hedlund, A. 213(1988)91  
 Heerma, W. 241(1990)219, 248(1991)553  
 Hefter, J. 248(1991)127  
 Heikka, R. 238(1990)223  
 Heineman, W.R. 214(1988)187, 237(1990)141, 243(1991)23, 248(1991)399  
 Heinze, E. 213(1988)11, 238(1990)101  
 Heller, S.R. 210(1988)81  
 Hemel, J.B. 209(1988)1, 220(1989)119  
 Henderson, A.N. 246(1991)139  
 Hendrickson, J.B. 235(1990)103  
 Hennion, J. 207(1988)85  
 Henrion, G. 241(1990)147  
 Henrion, R. 241(1990)147  
 Henry, C.G. 242(1991)17  
 Hepburn, A. 232(1990)3  
 Hefher, M.J. 207(1988)67  
 Herce Garraleta, M.D. 247(1991)295  
 Hernandez, J.-F. 249(1991)215  
 Hernández, L. 201(1987)275, 228(1990)265, 238(1990)383, 242(1991)267, 244(1991)49  
 Hernández, P. 228(1990)265, 238(1990)383  
 Hernández, S. 212(1988)123  
 Hernandez-Cassou, S. 201(1987)325  
 Hernandez Hernandez, L. 234(1990)175  
 Hernandez Lopez, M. 205(1988)139, 205(1988)149  
 Hernández Méndez, J. 209(1988)205, 220(1989)43, 225(1989)247, 228(1990)317, 230(1990)217  
 Hernández Torres, M.A. 201(1987)67  
 Herne, T.M. 246(1991)75  
 Herning, T. 244(1991)207  
 Herold, D.A. 224(1989)83

- Herr, S.L. 240(1991)273  
 Herrador, M.A. 246(1991)429  
 Herrera, L. 223(1989)361  
 Hicks, M.G. 235(1990)87  
 Hieftje, G.M. 215(1988)99, 216(1989)1  
 Hiele, M. 247(1991)223, 247(1991)243  
 Higashi, T. 245(1991)191  
 Higashidate, S. 225(1989)421, 227(1989)21  
 Higgins, K.L. 240(1990)35  
 Hiiro, K. 224(1989)145  
 Hillenkamp, F. 241(1990)175, 241(1990)321  
 Hillman, D.C. 231(1990)21  
 Hindriks, F.R. 220(1989)119  
 Hinkamp, S. 230(1990)1, 236(1990)345  
 Hinze, W.L. 225(1989)147  
 Hioki, A. 209(1988)281  
 Hippe, Z.S. 235(1990)135  
 Hiraide, M. 227(1989)421  
 Hirashima, A. 211(1988)119  
 Hirata, S. 221(1989)65  
 Hiratani, K. 221(1989)117  
 Hiromi, K. 203(1987)35  
 Hirose, S. 225(1989)273, 239(1990)181  
 Hirota, T. 217(1989)193  
 Ho, M.F. 246(1991)443  
 Ho, M.H. 215(1988)249, 233(1990)59  
 Ho, M.Y.K. 232(1990)397  
 Hoashi, M. 217(1989)165, 232(1990)317, 246(1991)359  
 Hobo, T. 222(1989)211, 231(1990)7, 247(1991)27  
 Hodda, A.E. 207(1988)283  
 Hoenig, M. 222(1989)55  
 Hoffmann, A. 240(1991)239  
 Hofstraat, J.W. 232(1990)245  
 Hojatie, M. 218(1989)111  
 Holden, L.R. 236(1990)141  
 Holler, F.J. 224(1989)211  
 Holliday, T.L. 247(1991)235  
 Holliman, C.L. 250(1991)105  
 Holst, O. 216(1989)299  
 Holthuis, J.J.M. 202(1987)35, 217(1989)229, 233(1990)251, 234(1990)285  
 Holzhauser-Rieger, K. 249(1991)87  
 Honda, H. 233(1990)135  
 Honda, K. 221(1989)65  
 Hong, S.O. 236(1990)423  
 Hoogendam, E. 201(1987)117, 211(1988)61, 239(1990)245  
 Hoorweg, G.Ph. 227(1989)173  
 Hori, S. 218(1989)161  
 Horiguchi, K. 225(1989)283  
 Hornyák, I. 227(1989)309, 227(1989)311, 227(1989)315  
 Horvai, G. 216(1989)163, 243(1991)55  
 Horvat, M. 243(1991)71  
 Horváth, Zs. 248(1991)241  
 Horwitz, E.P. 238(1990)263  
 Hosaka, H. 225(1989)83  
 Hoshino, H. 233(1990)121  
 Hosokawa, K. 217(1989)61  
 Hosono, S. 238(1990)351  
 Hoste, J. 204(1988)63  
 Hostettmann, K. 236(1990)63  
 Hotop, S. 249(1991)87  
 Hou, W. 230(1990)207, 239(1990)29  
 Houk, R.S. 248(1991)229, 250(1991)61  
 Hove, H.T. 222(1989)35  
 Howard, A.G. 223(1989)411  
 Howarth, V.A. 240(1990)29  
 Hoyt, A.M. 236(1990)237  
 Hozumi, K. 201(1987)301, 201(1987)357, 242(1991)131  
 Hu, P. 250(1991)105  
 Hu, Q. 212(1988)325  
 Hu, S. 248(1991)103  
 Hu, W.D. 226(1989)193, 245(1991)207  
 Hu, Z. 231(1990)101, 248(1991)177  
 Hua, C. 201(1987)263, 208(1988)237, 209(1988)339  
 Huang, B. 243(1991)65  
 Huang, H.-J. 238(1990)431, 246(1991)275  
 Huang, H.P. 213(1988)251  
 Huang, J. 246(1991)55  
 Huang, W.-F. 233(1990)223  
 Huawei, Q. 210(1988)169  
 Huber, C.O. 208(1988)247, 229(1990)191, 243(1991)279  
 Hubert, J. 224(1989)73  
 Hübner, U. 238(1990)211, 249(1991)87  
 Hudnik, V. 226(1989)203  
 Hudson, H.A. 208(1988)195, 237(1990)345  
 Hui, B.S. 243(1991)279  
 Hui, Y.-Z. 221(1989)353  
 Huiliang, H. 201(1987)1, 201(1987)269, 202(1987)117, 202(1987)123, 207(1988)17, 207(1988)27, 207(1988)37, 208(1988)237, 208(1988)301  
 Huizenga, D.L. 206(1988)263  
 Hulanicki, A. 219(1989)37, 233(1990)269  
 Hulshoff, A. 233(1990)251  
 Hum, A. 202(1987)215  
 Hummel, W. 213(1988)55  
 Hundek, H.-G. 238(1990)211  
 Hundek, H.G. 249(1991)25  
 Hunt, D.F. 225(1989)1  
 Hunter, C.A. 241(1990)281  
 Hüppe, U. 207(1988)171  
 Hussam, A. 204(1988)295  
 Hyvärinen, H. 207(1988)301  
 Ibáñez, J.A. 229(1990)153  
 Ibáñez, J.G. 246(1991)435  
 Ibusuki, T. 230(1990)183  
 Ichinobe, N. 221(1989)109  
 Idowu, O.R. 206(1988)339  
 Igarashi, S. 225(1989)147  
 Ihlenfeldt, W.D. 235(1990)65  
 Ihn, G.-S. 209(1988)345  
 Iida, C. 245(1991)35  
 Iida, J. 228(1990)307  
 Ikan, R. 232(1990)11  
 Ikeda, T. 230(1990)75  
 Iketani, S.-I. 203(1987)85  
 Iles, P.J. 204(1988)329, 219(1989)135  
 Ilić, Z. 221(1989)91  
 Imai, K. 205(1988)7, 205(1988)255, 223(1989)299, 225(1989)421, 227(1989)21, 227(1989)203  
 Imai, N. 235(1990)381  
 Imasaka, T. 208(1988)255, 208(1988)325, 209(1988)327, 212(1988)267, 219(1989)181, 219(1989)223, 243(1991)97, 243(1991)109, 245(1991)191

- Imato, T. 214(1988)349, 233(1990)139  
 Imura, H. 219(1989)97, 228(1990)85, 239(1990)115  
 Inagaki, T. 228(1990)23, 228(1990)31  
 Inatomi, K.-I. 212(1988)49  
 Inczédy, J. 238(1990)63, 248(1991)441  
 Infantes, J.A. 242(1991)179  
 Ingendoh, A. 241(1990)175  
 Ingle Jr., J.D. 222(1989)279, 224(1989)225, 224(1989)275, 224(1989)363, 243(1991)89  
 Ingman, F. 245(1991)251  
 Injuk, J. 220(1989)217  
 Inman, M.E. 218(1989)85  
 Inman, S.M. 217(1989)249, 239(1990)45  
 Inoue, H. 237(1990)155  
 Inoue, Y. 241(1990)273, 243(1991)183, 244(1991)105  
 Iqbal, M.S. 238(1990)427  
 Irth, H. 236(1990)165  
 Irving, H.M.N.H. 218(1989)323  
 Ishibashi, K. 219(1989)181  
 Ishibashi, M. 222(1989)301, 227(1989)21  
 Ishibashi, N. 208(1988)255, 208(1988)325, 209(1988)327, 212(1988)267, 214(1988)349, 219(1989)181, 219(1989)223, 233(1990)139, 243(1991)97, 243(1991)109, 245(1991)191  
 Ishida, J. 215(1988)259, 223(1989)319, 231(1990)1, 242(1991)113  
 Ishida, R. 248(1991)529  
 Ishihara, N. 228(1990)159, 236(1990)441, 239(1990)113  
 Ishii, D. 235(1990)399  
 Ishii, H. 244(1991)223  
 Ishii, T. 214(1988)409, 219(1989)123  
 Ishizuki, T. 212(1988)253, 220(1989)293, 223(1989)339  
 Israel, Y. 206(1988)313  
 Isshiki, K. 218(1989)25, 224(1989)55  
 Ito, K. 230(1990)189  
 Ito, M. 242(1991)131  
 Ito, S. 211(1988)213  
 Itoh, H. 243(1991)273  
 Iturriaga, H. 201(1987)193, 219(1989)257, 224(1989)23, 226(1989)271, 230(1990)221, 234(1990)395  
 Ivaska, A. 238(1990)223  
 Iwai, T. 239(1990)107  
 Iwasaki, K. 208(1988)163  
 Iwasaki, M. 207(1988)243  
 Iwasaki, T. 204(1988)113  
 Iwasaki, Y. 249(1991)323  
 Iwata, S. 246(1991)413  
 Iwata, T. 223(1989)319  
 Iwata, Y. 219(1989)97, 239(1990)115  
 Iyer, S.S. 228(1990)333, 236(1990)487  
 Izac, R.R. 234(1990)365  
 Izotov, B.N. 227(1989)287  
 Izquierdo, A. 227(1989)219  
 Izquierdo, L. 212(1988)309  
 Izquierdo-Ridorsa, A. 248(1991)447  
 Izutsu, K. 238(1990)351  
 Jackwerth, E. 226(1989)1, 226(1989)17, 226(1989)31, 242(1991)99  
 Jacobsen, A. 217(1989)391  
 Jacobsen, E. 217(1989)391  
 Jacobson, D.B. 246(1991)211  
 Jacobson, F.S. 249(1991)101  
 Jaffrezic-Renault, N. 222(1989)373, 231(1990)53, 231(1990)305  
 Jäger, V. 245(1991)1  
 Jagner, D. 201(1987)1, 201(1987)263, 201(1987)269, 202(1987)117, 202(1987)123, 207(1988)17, 207(1988)27, 207(1988)37, 208(1988)237, 208(1988)301, 209(1988)339  
 Jahan, M. 231(1990)69  
 Jain, A.K. 231(1990)69  
 Jakšić, Lj. 229(1990)287  
 Jakšić, L.N. 202(1987)231  
 Jalsowsky, G. 240(1990)223  
 Jamaluddin Ahmed, MD. 206(1988)345  
 Jančár, L. 248(1991)459  
 Jänchenová, H. 244(1991)15  
 Janczyszyn, J. 236(1990)417  
 Jano, I. 226(1989)305, 230(1990)151  
 Janowicz, K. 243(1991)201  
 Jansen, A.P. 209(1988)265  
 Jansen, E.H.J.M. 205(1988)175, 205(1988)243, 205(1988)249, 205(1988)267, 227(1989)49, 227(1989)57, 227(1989)109  
 Jarosz, J. 233(1990)207  
 Jawad, S.M. 246(1991)259  
 Jedral, W. 219(1989)37  
 Jenke, D.R. 220(1989)281  
 Jenkins, R.A. 236(1990)213  
 Jenkins, T.F. 231(1990)313  
 Jennings, R.N. 205(1988)207, 227(1989)37  
 Jensen, E.S. 226(1989)345  
 Jeppesen, M.T. 214(1988)147, 245(1991)89  
 Ji, H. 230(1990)207  
 Jia, G. 220(1989)103  
 Jia, X. 231(1990)101  
 Jian, C. 237(1990)265  
 Jian, G. 234(1989)89  
 Jiang, F. 234(1990)403  
 Jiang, M. 215(1988)37, 234(1990)403, 236(1990)411  
 Jiang, W. 247(1991)37  
 Jiao, K. 238(1990)367  
 Jimbo, K. 217(1989)281  
 Jiménez, M. 230(1990)35  
 Jimenez Jimenez, J.I. 209(1988)205  
 Jin, C. 235(1990)273  
 Jin, L. 244(1991)165  
 Jin, W. 236(1990)453, 238(1990)375, 245(1991)77  
 Jin, Z. 210(1988)195  
 Jinghe, Y. 215(1988)331  
 Jinno, F. 245(1991)35  
 Jinno, K. 202(1987)237  
 Jitoh, F. 228(1990)85  
 Jochum, C. 235(1990)87  
 Johansson, A. 206(1988)97  
 Johansson, C. 213(1988)207  
 Johansson, C.B. 241(1990)299  
 Johansson, G. 206(1988)49, 216(1989)299, 224(1989)13, 231(1990)165, 246(1991)283  
 Johansson, H.O.J. 213(1988)207  
 Johansson, P.-A. 223(1989)461



- John, R. 217(1989)335, 235(1990)451, 249(1991)381  
 Johnson, C.A. 238(1990)273  
 Johnson, D. 201(1987)311  
 Johnson, D.C. 204(1988)43, 204(1988)323, 215(1988)1, 248(1991)85  
 Johnson, D.J. 228(1990)155  
 Johnson, E.T. 217(1989)53  
 Johnson, G.R.A. 204(1988)349  
 Johnson, K.S. 201(1987)83, 249(1991)469  
 Johnson, M.E. 248(1991)195  
 Johnston, C. 240(1990)87  
 Joksimović, V. 212(1988)73  
 Jolicoeur, C. 213(1988)165  
 Jones, B.T. 227(1989)331  
 Jones, L.F. 246(1991)1  
 Jones, L.H. 249(1991)235  
 Jones, P. 217(1989)157, 220(1989)195, 225(1989)339, 237(1990)291, 249(1991)539  
 Jönsson-Pettersson, G. 249(1991)43, 250(1991)203  
 Joosten, E. 247(1991)243  
 Jordan, C. 244(1991)269  
 Jordan, J.M. 220(1989)23  
 Jordanov, B. 240(1990)145  
 Jorge, S.M.A. 242(1991)295  
 Josse, F. 231(1990)317  
 Jouan, M. 215(1988)211  
 Jovanović, M.S. 233(1990)329  
 Jovanović, V.M. 233(1990)329  
 Jørgensen, S.B. 238(1990)139  
 Juhl, L.L. 207(1988)125, 237(1990)223  
 Jumeau, J. 247(1991)249  
 Jurs, P.C. 233(1990)111, 248(1991)183  
 Juvet, R.S. 241(1990)241
- Kabbani, M.W. 218(1989)167  
 Kai, M. 207(1988)243, 215(1988)259, 248(1991)213  
 Kajbaf, M. 247(1991)151  
 Kakeba, A. 219(1989)239  
 Kakihana, H. 231(1990)147  
 Kaku, S. 225(1989)283  
 Kalaidjieva, I. 236(1990)385  
 Kalambaheti, C. 250(1991)21  
 Kalasinsky, K.S. 240(1990)41  
 Kalivas, J.H. 207(1988)125, 237(1990)223  
 Kaljurand, M. 239(1990)317, 248(1991)271  
 Kallury, K.M.R. 225(1989)369  
 Kalous, J. 209(1988)357  
 Kaltenbach, T.F. 246(1991)85  
 Kamada, M. 206(1988)273  
 Kamarás, K. 240(1991)273  
 Kamau, G.N. 207(1988)1  
 Kameda, Y. 220(1989)251  
 Kamichika, T. 219(1989)223  
 Kamo, N. 230(1990)41  
 Kamson, O.F. 211(1988)299  
 Kanai, M. 219(1989)239  
 Kanaya, K.-I. 203(1987)35  
 Kanaya, S. 215(1988)155, 219(1989)213, 225(1989)89, 239(1990)73  
 Kanazawa, T. 245(1991)71  
 Kanda, S. 223(1989)299, 225(1989)421  
 Kanda, Y. 207(1988)269
- Kaneki, N. 230(1990)189  
 Kankare, J. 207(1988)195, 209(1988)165, 211(1988)105, 215(1988)341, 233(1990)199  
 Kanke, M. 247(1991)13  
 Kanohta, K. 210(1988)89  
 Kaplan, I.R. 232(1990)11  
 Karadgova, I. 244(1991)123  
 Karagözler, A.E. 237(1990)317, 248(1991)163  
 Karan, H.I. 228(1990)23, 228(1990)31, 248(1991)155  
 Karas, M. 241(1990)175, 241(1990)321  
 Karatani, H. 224(1989)55  
 Karayannis, M.I. 224(1989)199, 224(1989)263  
 Karjalainen, E.J. 250(1991)169  
 Karjalainen, U.P. 250(1991)169  
 Karlberg, B. 214(1988)29  
 Karlíček, R. 218(1989)151  
 Karlsson, M. 244(1990)109  
 Karnes, H.T. 205(1988)279  
 Karpas, Z. 249(1991)503  
 Karpinchik, O.S. 215(1988)289  
 Karube, I. 207(1988)77, 213(1988)69, 215(1988)91, 215(1988)301, 217(1989)321, 218(1989)61, 218(1989)137, 220(1989)251, 225(1989)399, 228(1990)49, 229(1990)197, 232(1990)267, 235(1990)255, 244(1991)201, 244(1991)207, 249(1991)323  
 Kása, I. 227(1989)311, 227(1989)315  
 Kasahara, I. 219(1989)239  
 Kasama, K. 233(1990)135  
 Kascheres, C. 215(1988)223  
 Kashuba, A.T. 249(1991)509  
 Kasimura, H. 239(1990)297  
 Katagiri, Y. 210(1988)89  
 Katayama, Y. 204(1988)113  
 Kateman, G. 207(1988)111, 209(1988)265, 222(1989)1, 222(1989)19, 223(1989)205, 228(1990)145, 233(1990)65, 235(1990)27, 241(1990)23  
 Katsu, T. 217(1989)193, 239(1990)23  
 Kauffmann, J.-M. 206(1988)369, 234(1989)75, 236(1990)299  
 Kaufman, J.J. 210(1988)203, 210(1988)209  
 Kauppinen, M. 248(1991)569  
 Kavlentis, E. 208(1988)313  
 Kawabata, Y. 208(1988)255, 212(1988)267, 219(1989)223, 243(1991)97  
 Kawaguchi, T. 231(1990)107  
 Kawahara, K. 244(1991)161  
 Kawakubo, S. 217(1989)23  
 Kawamonzon, Y. 244(1991)223  
 Kawamura, T. 208(1988)81  
 Kawasaki, A. 206(1988)273  
 Kawase, A. 209(1988)281  
 Kayamoto, T. 239(1990)23  
 Kayasth, S.R. 219(1989)313, 231(1990)133  
 Keefer, L.K. 232(1990)397  
 Keen, L. 249(1991)263  
 Keene, J.B. 222(1989)169  
 Kelkar, U.R. 231(1990)317  
 Keller, H.R. 246(1991)379  
 Kellner, R. 240(1990)125  
 Kempers, A.J. 221(1989)147  
 Kempster, P.L. 218(1989)69  
 Kendall, D.S. 219(1989)165  
 Kenney, A. 249(1991)227

- Kenttämää, H. 217(1989)43  
 Kenttämää, H.I. 246(1991)227  
 Kerber, A. 235(1990)221  
 Kerouel, R. 248(1991)277  
 Kester, D.R. 247(1991)125  
 Ketkar, S.N. 245(1991)267  
 Ketttrup, A. 201(1987)95, 207(1988)171, 212(1988)273  
 Khaledi, M.G. 201(1987)67, 239(1990)121, 246(1991)131  
 Khalid, N. 233(1990)165  
 Khan, A.S. 238(1990)423  
 Khan, S.H. 222(1989)43, 231(1990)221  
 Kholin, Yu.V. 249(1991)353  
 Khopkar, S.M. 206(1988)363, 221(1989)183, 222(1989)215, 245(1991)27  
 Kiba, N. 218(1989)161, 224(1989)133, 239(1990)307, 243(1991)183, 244(1991)105, 248(1991)367  
 Kiboku, M. 218(1989)173  
 Kiechle, F. 249(1991)35  
 Kiefer, W. 240(1990)119  
 Kihara, S. 218(1989)25, 220(1989)111, 221(1989)179, 226(1989)187, 232(1990)293, 239(1990)277, 244(1991)289, 248(1991)501, 249(1991)525  
 Kiliç, E. 234(1990)339  
 Kimura, J. 235(1990)255  
 Kimura, K. 203(1987)85  
 Kimura, S. 227(1989)165  
 Kimura, T. 222(1989)121  
 Kindervater, R. 234(1990)113  
 King, D.W. 247(1991)125  
 King, J.N. 207(1988)137  
 King, P. 207(1988)225  
 Kingsley, E.D. 206(1988)385  
 Kingston, H.M. 220(1989)243  
 Kinniburgh, D.G. 232(1990)189  
 Kinoshita, E. 230(1990)17  
 Kinoshita, H. 230(1990)75  
 Kinter, M. 224(1989)83  
 Kir, S. 229(1990)145  
 Kirchner, S. 203(1987)11  
 Kirsch, B. 220(1989)235  
 Kirsch, B.A. 209(1988)111  
 Kishikawa, K. 239(1990)297  
 Kiss, E. 211(1988)243  
 Kister, J. 242(1991)137  
 Kitabatake, K. 218(1989)61  
 Kitagawa, T. 237(1990)237  
 Kitagawa, Y. 207(1988)77, 213(1988)69, 218(1989)61  
 Kitamura, K. 201(1987)301, 201(1987)357, 242(1991)131  
 Kito, M. 239(1990)181  
 Kittsteiner-Eberle, R. 249(1991)137  
 Klaeboe, P. 240(1991)363  
 Klaessens, J. 222(1989)1, 222(1989)19, 223(1989)205  
 Kılıç, E. 249(1991)427  
 Klein, J. 233(1990)101  
 Klinkhammer, G.P. 218(1989)265, 232(1990)323  
 Kluge, W. 219(1989)273  
 Knauth, H.-D. 213(1988)221  
 Knittel, D. 226(1989)247  
 Knox, S. 226(1989)229, 226(1989)239  
 Kobatake, Y. 230(1990)41  
 Kobayashi, N. 231(1990)121, 238(1990)339, 248(1991)345  
 Kobayashi, S. 244(1991)207  
 Koch, R. 238(1990)211  
 Koch, W.F. 215(1988)21  
 Koel, M. 239(1990)317  
 Koh, L.L. 218(1989)345  
 Kohen, F. 205(1988)215  
 Kohmoto, S. 239(1990)297  
 Kohoutková, D. 212(1988)279  
 Koike, T. 218(1989)119  
 Kojima, E. 248(1991)213  
 Kojima, I. 245(1991)35  
 Kojima, N. 233(1990)275  
 Kojima, T. 219(1989)171  
 Kojlo, A. 228(1990)287  
 Kok, C.J. 221(1989)147  
 Kok, W.Th. 228(1990)39, 228(1990)209  
 Kokkonen, P. 207(1988)301  
 Kolba, E. 240(1990)119  
 Kolev, S.D. 201(1987)109, 208(1988)117, 208(1988)133, 229(1990)183, 234(1990)49, 234(1990)57, 241(1990)43, 241(1990)55, 247(1991)51  
 Koliander, W. 225(1989)129  
 Kolkman, H. 213(1988)35  
 Kolmonpunporna, M. 226(1989)159  
 Kolotov, V.P. 203(1987)43  
 Kolycheva, N. 242(1991)65  
 Komai, M. 238(1990)351  
 Komarov, E.V. 222(1989)335  
 Komatsu, Y. 227(1989)397  
 Komatsubara, H. 208(1988)317  
 Komljenović, J. 231(1990)137  
 Komorsky-Lovrić, Š. 204(1988)161  
 Komukai, T. 239(1990)73  
 Komy, Z. 204(1988)179  
 Konar, S.K. 229(1990)277  
 Konidari, C.N. 224(1989)199  
 König, W. 249(1991)271  
 Konings, R.J.M. 240(1991)383  
 Kontas, E. 231(1990)273  
 Koochaki, Z.B. 232(1990)357  
 Kooiman, F.P. 248(1991)553  
 Koopal, L.K. 232(1990)189  
 Kooyman, R.P.H. 213(1988)35, 238(1990)317, 238(1990)323  
 Koparica, M. 208(1988)231, 244(1991)193  
 Koppmann, R. 236(1990)197  
 Koprinarov, N. 240(1990)219  
 Kord, A.S. 246(1991)131  
 Korechika, K. 220(1989)275  
 Korenaga, T. 214(1988)87, 214(1988)97  
 Korf, J. 205(1988)53  
 Kőrösi, J. 227(1989)311, 227(1989)315  
 Korte, E.H. 240(1990)179  
 Koryta, J. 206(1988)1, 233(1990)1  
 Köseoglu, F. 249(1991)427  
 Koshiishi, K. 215(1988)347  
 Koshima, H. 232(1990)287  
 Koski, W.S. 210(1988)203  
 Kostanski, M.T. 242(1991)191  
 Kostiaainen, R. 204(1988)233  
 Kotiaho, T. 231(1990)175  
 Koudelka, M. 219(1989)45  
 Koukli, I.I. 236(1990)463  
 Koupparis, M.A. 204(1988)271, 219(1989)295, 224(1989)339



- Kovach, P.M. 249(1991)201  
 Kowalski, B.R. 206(1988)125, 218(1989)303  
 Kowalski, Z. 221(1989)305  
 Kozłowski, H. 207(1988)85  
 Kraak, J.C. 207(1988)149  
 Krabisch, Ch. 201(1987)281, 222(1989)75  
 Kragten, J. 241(1990)1  
 Krasnov, A.V. 248(1991)579  
 Krawczyński vel Krawczyk, T. 207(1988)325  
 Kresbach, G.M. 248(1991)615  
 Krishnan, V. 239(1990)7  
 Krivan, V. 229(1990)127  
 Kroutil, R.T. 232(1990)261, 246(1991)85  
 Krug, F.J. 214(1988)397, 245(1991)211  
 Krull, I.S. 215(1988)45  
 Krull, U.J. 202(1987)215, 225(1989)369, 237(1990)253  
 Krumgalz, B.S. 218(1989)335  
 Kryger, L. 219(1989)105  
 Kuban, V. 245(1991)251, 248(1991)493  
 Kubiak, W.W. 221(1989)43, 229(1990)139  
 Kubicek, C.P. 241(1990)321  
 Kubinyi, H. 247(1991)107  
 Kublik, Z. 201(1987)11  
 Kubo, I. 218(1989)61  
 Kubota, M. 209(1988)281, 228(1990)61  
 Kubota, T. 208(1988)351  
 Kucharkowski, R. 219(1989)273  
 Kudryavtsev, G.V. 219(1989)201  
 Kuhara, T. 241(1990)273  
 Kuhn, R. 234(1990)259  
 Kuhr, W.G. 205(1988)53  
 Kula, M.-R. 213(1988)55, 235(1990)329, 248(1991)371  
 Kulíška, K. 240(1991)277  
 Küllik, E. 239(1990)317  
 Kulmala, S. 208(1988)69, 209(1988)165, 211(1988)105  
 Kulys, J. 243(1991)167, 243(1991)173, 243(1991)287  
 Kumamaru, T. 218(1989)173, 221(1989)65, 221(1989)249, 232(1990)389, 239(1990)139, 246(1991)413, 247(1991)13  
 Kumar, A. 241(1990)127  
 Kumaran, S. 249(1991)405  
 Kumbhar, A.G. 229(1990)149, 239(1990)291  
 Kümmel, M. 238(1990)191  
 Kümmel, R. 245(1991)243  
 Kumoyama, H. 243(1991)97  
 Künnecke, W. 234(1990)113, 234(1990)213  
 Kunwar, U.K. 250(1991)71  
 Kuo, H.-H. 248(1991)517  
 Kuratli, M. 244(1991)151  
 Kurihara, M. 226(1989)109  
 Kuroishi, T. 220(1989)13  
 Kuroko, M. 217(1989)193  
 Kurosawa, S. 230(1990)41  
 Kurotu, T. 233(1990)325  
 Kurtio, P. 212(1988)297  
 Kurusu, K. 244(1991)59  
 Kurzawa, J. 243(1991)201  
 Kurzawa, Z. 243(1991)201  
 Kusakabe, H. 235(1990)329  
 Kusakabe, S. 242(1991)57  
 Kusuda, K. 224(1989)1  
 Kutsuna, S. 230(1990)183  
 Kuzik, L. 240(1990)219  
 Kvalheim, O.M. 223(1989)53, 223(1989)123  
 Laan, C.A. 205(1988)243  
 Labuda, J. 208(1988)219, 228(1990)259  
 Lacourse, W.R. 215(1988)45  
 Lacy, N. 224(1989)373  
 Lafontaine, P. 241(1990)227  
 Lai, R.-L. 211(1988)257  
 Laila, A.A.R. 204(1988)355  
 Lam, Z. 241(1990)187  
 Lamb, J.H. 241(1990)201, 241(1990)233, 241(1990)281, 247(1991)151  
 Lambrechts, H. 247(1991)229  
 Lamy, F. 235(1990)299  
 Lamy, I. 212(1988)105  
 Lan, H.L. 248(1991)155  
 Lan, Z.-H. 212(1988)285  
 Lancaster, J.S. 239(1990)189, 250(1991)145  
 Lang, S.J. 235(1990)367  
 Langford, C.H. 232(1990)43, 232(1990)181, 244(1991)135  
 Langridge, J.I. 247(1991)161, 247(1991)177  
 Lankhof, H. 248(1991)553  
 La Noce, T. 209(1988)315  
 Lanouette, M. 233(1990)311  
 Lansens, P. 228(1990)93, 229(1990)281, 234(1990)417  
 Lanza, P. 244(1991)247, 244(1991)253  
 Lapat, A. 227(1989)309  
 Larew, L.A. 204(1988)43  
 LaRosa, J.J. 238(1990)263  
 Larrechi, M.S. 225(1989)69  
 Larsen, E. 226(1989)345  
 Larsson, J.A. 224(1989)289  
 Lartillot, S. 245(1991)129  
 Laserna, J.J. 208(1988)21, 237(1990)439, 244(1991)215  
 Latif, S. 212(1988)23  
 Laue, R. 235(1990)221  
 Lauer, H.H. 250(1991)45  
 Laufer, D.A. 220(1989)171  
 Lavagnini, I. 211(1988)75, 223(1989)193, 230(1990)29, 239(1990)95  
 Lavorato, G. 201(1987)59  
 Lázaro, F. 214(1988)217, 219(1989)231, 216(1989)275, 226(1989)221, 229(1990)177, 242(1991)283, 249(1991)461  
 Le, X.-C. 229(1990)239  
 Leaback, D.H. 205(1988)89, 205(1988)97, 212(1988)213, 227(1989)1, 227(1989)257, 227(1989)273  
 Leardi, R. 202(1987)175, 233(1990)143  
 Lebedev, V.Ya. 248(1991)579  
 Lechner, J.F. 234(1990)199  
 Leclercq, P.A. 247(1991)229  
 Lederer, M. 246(1991)451  
 Lee, A.W.M. 218(1989)157, 230(1990)203, 246(1991)443  
 Lee, B.-S. 204(1988)333  
 Lee, H.S. 228(1990)31, 248(1991)155  
 Lee, I.H. 229(1990)47  
 Lee, K.W. 230(1990)203  
 Lee, S. 244(1991)201  
 Lee, Y.H. 221(1989)259  
 Leech, D. 245(1991)139  
 Leermakers, M. 234(1990)417  
 Leggett, K.E.A. 222(1989)169  
 Legrand, M. 203(1987)11  
 Lehmann, B. 233(1990)41  
 Lehuède, P. 201(1987)145  
 Lei, W. 226(1989)165, 226(1989)255

- Leigh, A.G.W. 212(1988)213  
 Leijten, J.F. 211(1988)43  
 Leiker, T.J. 228(1990)69  
 Leiner, M.J.P. 205(1988)1  
 Lenn, C.P. 238(1990)251  
 Leon, L.E. 234(1990)227  
 Leonard, R.G. 217(1989)335  
 Léon Camacho, M. 244(1991)89  
 Leon-Gonzalez, M.E. 219(1989)329, 236(1990)267  
 Leporati, E. 234(1990)381, 234(1990)387  
 Leppard, G.G. 232(1990)107  
 Lerner, D.A. 205(1988)105, 205(1988)117, 227(1989)297  
 Leshan, W. 210(1988)115  
 Leung, C.P. 229(1990)255  
 Leung, W.K.H. 229(1990)255  
 Levine, S.P. 210(1988)51  
 Levi-Setti, R. 241(1990)299  
 Levison, P.R. 249(1991)195  
 Lewandowski, R. 233(1990)269  
 Lewenstam, A. 233(1990)269, 236(1990)331  
 Lewis, S.W. 250(1991)145  
 Lewis, T.W. 244(1991)197  
 Lewis-Russ, A. 249(1991)509  
 Leyman, R. 236(1990)371  
 Li, C. 238(1990)307  
 Li, D. 210(1988)219  
 Li, H. 212(1988)31, 221(1989)269, 226(1989)323, 243(1991)127  
 Li, J. 212(1988)145, 231(1990)151  
 Li, P. 229(1990)213, 232(1990)367, 236(1990)307, 241(1990)137, 244(1991)39  
 Li, R. 228(1990)251  
 Li, S. 232(1990)409  
 Li, W. 234(1990)365  
 Li, W.Y. 244(1991)21  
 Li, X. 236(1990)453  
 Li, Y. 236(1990)411, 245(1991)13  
 Li, Y.-Z. 248(1991)589  
 Li, Z. 248(1991)257  
 Liang, G.Y. 243(1991)127  
 Liang, Y.-Z. 222(1989)347, 222(1989)369  
 Liberatori, A. 209(1988)315  
 Liddicoat, M.I. 249(1991)555  
 Lieberman, S.H. 217(1989)249, 239(1990)45  
 Liebich, H.M. 236(1990)121  
 Liebich, V. 239(1990)61  
 Likforman, J. 204(1988)77  
 Lillo, E. 246(1991)375  
 Lima, J.L.F.C. 234(1990)67, 234(1990)221  
 Lin, D.-P. 235(1990)375  
 Lin, J. 247(1991)125  
 Lin, M.-S. 218(1989)281, 234(1990)453, 237(1990)107  
 Lin, P. 246(1991)227  
 Lin, T. 231(1990)151  
 Lin, Y.-P. 224(1989)139  
 Linares, P. 202(1987)199, 221(1989)173, 225(1989)431, 225(1989)443, 230(1990)199, 235(1990)441, 238(1990)411  
 Lindberg, W. 206(1988)125, 211(1988)1  
 Lindner, E. 234(1990)49, 234(1990)57  
 Linert, W. 240(1990)199  
 Ling, B.L. 227(1989)203  
 Lingeman, H. 205(1988)15, 236(1990)165  
 Linley, P.A. 234(1989)89  
 Lin Ling, B. 234(1990)187  
 Lintern, M. 209(1988)193  
 Linton, R.W. 243(1991)139  
 Lipiäinen, K. 215(1988)341, 233(1990)199  
 Lippitsch, M.E. 205(1988)1  
 Li-Shi, Y. 210(1988)51  
 Lito, M.J.G.H.M. 239(1990)129  
 Litorja, L.A. 235(1990)375  
 Littlejohn, D. 250(1991)71  
 Litwiler, K.S. 237(1990)485, 246(1991)55  
 Liu, C. 238(1990)367  
 Liu, C.-C. 248(1991)323  
 Liu, C.Y. 214(1988)121, 233(1990)77  
 Liu, J. 224(1989)145  
 Liu, J.-S. 237(1990)497  
 Liu, P. 245(1991)109, 247(1991)37  
 Liu, S.Z. 210(1988)219  
 Liu, W. 212(1988)285  
 Liu, Y. 222(1989)279, 231(1990)151, 243(1991)127  
 Liu, Y.-M. 234(1990)233, 238(1990)297  
 Llaguno, E.C. 232(1990)31  
 Llaveró, M.P. 229(1990)27  
 Lo, J.-M. 224(1989)139  
 Łobiński, R. 226(1989)281  
 Locascio-Brown, L. 228(1990)107  
 Locatelli, C. 204(1988)189  
 Lochmüller, C.H. 249(1991)297  
 Lodding, A.R. 241(1990)299  
 Long, W.J. 205(1988)279  
 Longhi, P. 207(1988)211  
 Longman, D. 209(1988)193  
 Loo, J.A. 241(1990)167  
 López, M.C. 246(1991)375  
 López-Calahorra, F. 219(1989)161  
 Lopez-Cantarero, E. 240(1991)395  
 Lopez Fonseca, J.M. 230(1990)97  
 López García, A. 225(1989)339  
 Loranger, C. 249(1991)55  
 Lorenzo, E. 201(1987)275, 238(1990)383, 242(1991)267  
 Lorenzo, M.L. 246(1991)375  
 Lorenzo, M.S. 201(1987)295  
 Loreti, L. 209(1988)315  
 Loriguillo, A. 212(1988)223  
 Loring, D.H. 220(1989)263  
 Louwerse, D.J. 228(1990)209  
 Lovrić, M. 218(1989)7  
 Low, G.K.-C. 231(1990)13, 233(1990)171  
 Lowe, C.R. 231(1990)33  
 Lowe, R.D. 250(1991)95  
 Lowney, C. 234(1990)479  
 Lowry, S.R. 210(1988)51  
 Lu, B.T. 210(1988)219  
 Lu, J. 238(1990)375  
 Lu, K. 210(1988)143  
 Lu, X. 235(1990)461  
 Lu, Z. 228(1990)251  
 Lub, T.T. 241(1990)83, 241(1990)95  
 Lubert, K.-H. 237(1990)233  
 Lubrano, G.J. 206(1988)369, 245(1991)63, 245(1991)151  
 Lüdi, H. 213(1988)215, 217(1989)359  
 Ludvík, J. 209(1988)69  
 Łukaszewski, Z. 202(1987)85, 202(1987)97, 231(1990)77

- Luinge, H.-J. 223(1989)135, 240(1990)3  
 Lukkari, I. 211(1988)1  
 Lukovits, I. 240(1990)135  
 Lukyanenko, N.G. 215(1988)289  
 Lunar, M<sup>a</sup>.L. 237(1990)207  
 Lund, W. 208(1988)347, 211(1988)223, 217(1989)391, 219(1989)141  
 Lundström, I. 231(1990)93  
 Lunelli, M. 235(1990)177  
 Lunte, C.E. 214(1988)187, 246(1991)181  
 Luo, J. 229(1990)71, 237(1990)71  
 Luo, P. 244(1991)169  
 Luo, S. 242(1991)11  
 Luo, X. 245(1991)13  
 Luo, Y. 212(1988)325  
 Luong, J.H.T. 221(1989)215, 234(1990)465  
 Lupšina, V. 243(1991)71  
 Luque de Castro, M.D. 202(1987)199, 211(1988)281, 211(1988)287, 214(1988)217, 214(1988)375, 216(1989)275, 219(1989)191, 219(1989)231, 221(1989)173, 224(1989)127, 224(1989)169, 225(1989)431, 225(1989)443, 226(1989)221, 229(1990)177, 230(1990)137, 230(1990)199, 234(1989)89, 234(1990)227, 234(1990)345, 235(1990)441, 238(1990)411, 242(1991)179, 242(1991)283, 249(1991)461, 250(1991)157  
 Lutter, J. 243(1991)17  
 Lutz, B. 240(1991)311  
 Lykos, P. 210(1988)1  
 Lyles, A. 239(1990)189  
 Lytle, F.E. 215(1988)203  
  
 Ma, C. 235(1990)323  
 Ma, L. 210(1988)143  
 Macdonald, A.M.G. 207(1988)337, 211(1988)155, 211(1988)175  
 MacDuff, R.C. 217(1989)101, 226(1989)153  
 Machwe, M.K. 230(1990)213  
 Mackey, D.J. 232(1990)161  
 MacLaurin, P. 238(1990)171  
 MacMillan, D.K. 250(1991)105  
 MacRitchie, F. 249(1991)241  
 Madec, C. 230(1990)83  
 Madrid, Y. 237(1990)181, 247(1991)7  
 Maeda, M. 202(1987)131, 212(1988)49, 231(1990)213  
 Maeder, G. 231(1990)115  
 Maessen, F.J.M.J. 207(1988)149, 226(1989)53, 226(1989)73, 235(1990)427  
 Magno, F. 211(1988)75, 223(1989)193, 230(1990)29, 239(1990)95  
 Mahalanabis, K.K. 249(1991)349  
 Maher, W. 209(1988)299  
 Mahó, S. 241(1990)289  
 Mahon, M.J. 215(1988)325  
 Mahuzier, G. 211(1988)333, 217(1989)11, 223(1989)309, 227(1989)319  
 Maier, H. 235(1990)87  
 Main, M.V. 229(1990)101  
 Maitra, C. 208(1988)173  
 Maj, S.P. 238(1990)79  
 Maj-Zurawska, M. 218(1989)47, 236(1990)331  
 Mák, M. 241(1990)289  
 Malaki-Athanasiou, E. 219(1989)295  
 Malcolm, R.L. 232(1990)19  
 Malcomson, M.E. 246(1990)199  
 Malcovati, M. 249(1991)291  
 Male, K.B. 221(1989)215, 234(1990)465  
 Malik, W.U. 230(1990)91  
 Malinski, T. 249(1991)35  
 Malissa, Jr., H. 237(1990)451  
 Mandenius, C.F. 215(1988)71, 224(1989)31  
 Manetović, M. 229(1990)287  
 Mann, A. 209(1988)193  
 Manson, G.A. 235(1990)77  
 Mantsch, H.H. 240(1990)151  
 Manuel De Villena, J. 234(1990)309  
 Manz, J. 240(1990)119  
 Manzano Muñoz, T. 247(1991)61  
 Marassi, R. 219(1989)153  
 Marcano, E. 239(1990)229  
 Marcé, R.M. 242(1990)25  
 March, J.G. 207(1988)233, 229(1990)249  
 March, P. 219(1989)89  
 Marcos, J. 239(1990)211  
 Marcos, J.I. 240(1991)395  
 Marcott, C. 250(1991)131  
 Marczenko, Z. 226(1989)281  
 Marden, S.K. 247(1991)67  
 Mareček, V. 244(1991)15  
 Marek, M. 218(1989)151, 239(1990)263  
 Marenchic, I.G. 213(1988)131, 249(1991)67  
 Marengo, E. 210(1988)33, 235(1990)215  
 Marinsky, J.A. 232(1990)123, 232(1990)171  
 Marion, P. 238(1990)117  
 Mark, H. 223(1989)75  
 Mark, Jr., H.B. 237(1990)317, 248(1991)163  
 Markell, C.G. 236(1990)157  
 Märki, W. 213(1988)215  
 Marko-Varga, G. 206(1988)49, 213(1988)139, 225(1989)263, 234(1990)13, 246(1991)283, 249(1991)145, 250(1991)203  
 Markušová, K. 221(1989)131, 248(1991)109  
 Marletta, G.P. 201(1987)253, 220(1989)135  
 Marøy, K. 243(1991)227  
 Marques da Silva, B. 239(1990)87  
 Márquez, J. 215(1988)307  
 Márquez, M. 237(1990)353, 239(1990)221  
 Marquez Gomez, J.C. 205(1988)139, 205(1988)149  
 Marr, I.L. 207(1988)259  
 Marrazza, G. 231(1990)125, 242(1991)91  
 Mars, C. 228(1990)193  
 Marsden, A.B. 214(1988)447  
 Marshall, G.B. 202(1987)49  
 Marshall, G.D. 237(1990)329  
 Marsili, M. 210(1988)33, 235(1990)215  
 Marsman, J.H. 238(1990)129  
 Marston, A. 236(1990)63  
 Martelet, C. 231(1990)305, 249(1991)367  
 Martev, I. 240(1990)219  
 Martin, G.B. 237(1990)91  
 Martín, M.A. 205(1988)105, 205(1988)117, 205(1988)129, 245(1991)217  
 Martin, P. 205(1988)129  
 Martin, S.K. 228(1990)155  
 Martinac, V. 231(1990)137  
 Martin-Bouyer, M. 233(1990)207  
 Martinez, S. 245(1991)139  
 Martinez, T. 201(1987)43, 207(1988)95

- Martínez Calatayud, J. 231(1990)259, 233(1990)235, 245(1991)101
- Martínez-Jiménez, P. 215(1988)233
- Martínez-Lozano, C. 209(1988)79, 244(1991)99
- Martinho, E. 219(1989)317, 223(1989)287
- Marty, J.-L. 228(1990)49
- Marx, G. 201(1987)135
- Marx, J.N. 243(1991)207
- Marysael, H. 227(1989)203
- Más, F. 239(1990)151
- Mascini, M. 209(1988)223, 211(1988)195, 213(1988)101, 231(1990)125, 242(1991)91
- Mashiba, K. 214(1988)259
- Masia, P. 204(1988)145
- Masoom, M. 214(1988)173, 248(1991)219
- Maspoch, S. 224(1989)23, 226(1989)271, 230(1990)221, 233(1990)159, 234(1990)395
- Massart, D.L. 223(1989)1, 223(1989)19, 225(1989)69, 246(1991)379
- Masschelein, W.J. 226(1989)121
- Massé, R. 247(1991)211
- Massiot, G. 242(1991)37
- Massoumi, A. 232(1990)351
- Masten, S.J. 248(1991)225
- Masuda, Y. 224(1989)145
- Masui, K. 237(1990)135
- Mathur, N.C. 230(1990)91
- Mathur, P.K. 239(1990)291
- Matsoukas, K.A. 227(1989)211
- Matsuda, R. 202(1987)187, 209(1988)45, 222(1989)301, 222(1989)313
- Matsui, M. 218(1989)25, 220(1989)111, 221(1989)179, 226(1989)187, 232(1990)293, 239(1990)277, 244(1991)289, 248(1991)501, 249(1991)525
- Matsumoto, I. 241(1990)273
- Matsumoto, M. 241(1990)273
- Matsumoto, Y. 218(1989)129
- Matsuo, H. 218(1989)173
- Matsuo, M. 236(1990)281
- Matsuoka, H. 217(1989)281
- Matsuoka, S. 225(1989)313
- Matsusaki, K. 248(1991)251
- Matsushita, R. 248(1991)367
- Matsushita, T. 231(1990)107
- Matsuyama, T. 247(1991)283
- Matthews, R.W. 231(1990)13, 233(1990)171
- Mattiasson, B. 213(1988)79, 213(1988)121, 216(1989)299, 219(1989)27, 249(1991)17, 249(1991)61, 249(1991)163
- Mattos, I.L. 204(1988)259, 214(1988)247, 234(1990)153
- Matusiewicz, H. 207(1988)349
- Matuszewski, B.K. 227(1989)189
- Matuszewski, W. 207(1988)59, 248(1991)379, 248(1991)391
- Mauchien, P. 220(1989)235, 238(1990)291
- Mäurer, F. 201(1987)289
- Mayer, F. 213(1988)11
- Mazur, M. 235(1990)135
- Mazzanti, V. 235(1990)177
- Mazzei, F. 221(1989)157
- Mazzetto, G. 234(1990)425
- Mazzocchin, G.-A. 208(1988)207, 211(1988)325, 219(1989)9, 219(1989)19, 238(1990)357, 244(1991)29
- McAdoo, D.J. 247(1991)235
- McAleer, J.F. 248(1991)361
- McClintock, C.P. 237(1990)253
- McCurley, M.F. 249(1991)373
- McEntee, J. 226(1989)145
- McGowan, K.A. 214(1988)391
- McGuffin, V.L. 246(1991)65
- McKay, K. 245(1991)83
- McKelvie, I.D. 234(1990)409
- McKenna, K. 206(1988)75
- McKerrell, E.H. 204(1988)343, 212(1988)155
- McKervey, M.A. 204(1988)223
- McKillen, G.M. 217(1989)183
- McLachlan, N.M. 204(1988)151
- McLuckey, S.A. 225(1989)25
- McMillan, D.C. 241(1990)255
- McNeil, C.J. 237(1990)99, 245(1991)57
- McPeters, H.L. 238(1990)83
- McTaggart, D.R. 215(1988)13
- Mead Jr, D.A. 204(1988)43, 204(1988)323
- Mealet, C. 211(1988)205
- Meaney, M. 217(1989)335
- Mees, L. 211(1988)231
- Mehra, H.C. 217(1989)383
- Meier, H. 249(1991)405
- Meier, R. 219(1989)281, 236(1990)315
- Meissl, G. 205(1988)183
- Meites, L. 204(1988)295, 211(1988)31, 221(1989)319
- Mekenyan, O.V. 212(1988)317
- Melcher, R.G. 214(1988)299
- Melendez, L.H. 228(1990)235
- Meli, M.A. 220(1989)103
- Mellbin, G. 238(1990)71
- Melloul, S. 249(1991)503
- Melnik, O.T. 215(1988)289
- Melzacka, M. 241(1990)261
- Membela, A. 249(1991)461
- Memon, M.H. 201(1987)345
- Menendez Fraga, P. 212(1988)181
- Menéndez García, A. 234(1990)133
- Meng, Y.M. 210(1988)219
- Menzel, E.J. 205(1988)183
- Merciny, E. 220(1989)187, 221(1989)325
- Merighi, R. 205(1988)229
- Merino Merino, I. 234(1990)127
- Mermet, J.M. 250(1991)85
- Mesa, J.A.G. 235(1990)441
- Meseguer, J. 237(1990)181
- Mesquita, M. 214(1988)397
- Messina, A. 204(1988)145
- Metcalfe, E. 242(1991)31, 250(1991)257
- Meuleman, C. 229(1990)281, 234(1990)417
- Meyer, E. 210(1988)135
- Meyerhoff, M.E. 217(1989)123, 222(1989)95, 222(1989)109, 229(1990)47, 237(1990)115, 248(1991)379, 248(1991)391
- Meyerhoff, M.R. 208(1988)31, 208(1988)43
- Michalowski, J. 228(1990)287
- Michalska, A. 233(1990)269
- Michaylova, V. 207(1988)373, 232(1990)393
- Michiels, F. 216(1989)25
- Mickler, W. 245(1991)243
- Middleton, R. 233(1990)101
- Miertuš, S. 247(1991)83

- Migliardi, M. 207(1988)161  
 Mignardi, M.A. 227(1989)331  
 Mihajlović, Lj. 212(1988)73, 229(1990)221  
 Mihajlović, R.P. 202(1987)231, 212(1988)73, 229(1990)221, 229(1990)287  
 Mikac, N. 212(1988)349  
 Mikulski, R. 236(1990)325  
 Miles, R. 234(1990)439  
 Mille, G. 242(1991)137  
 Miller, C. 249(1991)215  
 Miller, J.D. 232(1990)3  
 Miller, J.N. 227(1989)145, 227(1989)155  
 Miller, L.V. 241(1990)249  
 Miller, W.G. 227(1989)135  
 Millesi, H. 205(1988)183  
 Mills, K.A. 228(1990)235  
 Milne, P.J. 201(1987)127  
 Milosevic, M. 240(1991)251  
 Minero, C. 212(1988)171  
 Minon, G. 226(1989)121  
 Miranda Ordieres, A. 233(1990)281  
 Mise, K. 213(1988)273  
 Mishra, R.K. 208(1988)91, 237(1990)491  
 Mitchell, J.W. 217(1989)53  
 Mitri, M. 214(1988)433  
 Mitrović, A. 221(1989)91  
 Mitsui, T. 248(1991)329  
 Mittal, A. 228(1990)273  
 Miura, J. 233(1990)121, 237(1990)201  
 Miura, T. 248(1991)529  
 Miwa, T. 204(1988)339, 219(1989)1, 224(1989)1  
 Miyabayashi, A. 213(1988)79, 213(1988)121, 219(1989)27  
 Miyahara, M. 213(1988)273  
 Miyamoto, S. 235(1990)255  
 Miyashita, Y. 202(1987)237  
 Miyata, N. 226(1989)109  
 Miyazaki, K. 237(1990)155  
 Miyazaki, S. 220(1989)111, 221(1989)179, 226(1989)187, 239(1990)277, 249(1991)525  
 Miyazaki, Y. 247(1991)283  
 Mizuike, A. 204(1988)339, 211(1988)293, 219(1989)1, 227(1989)421  
 Mizuno, T. 217(1989)377, 236(1990)479  
 Mizutani, F. 236(1990)245, 245(1991)145  
 Mlakar, M. 221(1989)279, 247(1991)89  
 Mo, J. 236(1990)411  
 Mo, J.-Y. 222(1989)263  
 Mo, Z.-H. 215(1988)79, 217(1989)327, 229(1990)205, 230(1990)51, 246(1991)421, 246(1991)425  
 Mocák, J. 209(1988)87  
 Moens M. 216(1989)25  
 Mogilnitsky, M.M. 222(1989)335  
 Mohammed, A.K. 243(1991)239  
 Mohite, B.S. 206(1988)363  
 Moll, R. 235(1990)189  
 Möller, J. 214(1988)121, 244(1990)109  
 Molnár-Perl, I. 202(1987)159, 239(1990)165  
 Momin, S.A. 244(1991)71  
 Mondovi, B. 237(1990)391  
 Moneyhun, J.H. 236(1990)213  
 Mongay Fernández, C. 223(1989)419, 237(1990)473  
 Monseur, X. 204(1988)127  
 Montenegro, M.C.B.S.M. 234(1990)221  
 Montero, R. 215(1988)241, 234(1990)433  
 Montesinos, J.L. 234(1990)67  
 Moody, G.J. 222(1989)211  
 Mopper, K. 201(1987)127, 231(1990)299, 236(1990)363, 237(1990)215  
 Moraes, N.M.P. 236(1990)487  
 Morales, M.T. 238(1990)411  
 Morales, R. 246(1991)171  
 Morales Rubio, A. 235(1990)405  
 Morante, C. 249(1991)479  
 Morelis, R.M. 231(1990)27  
 Morelli, B. 209(1988)175  
 Moreno Cordero, B. 230(1990)217, 234(1990)239  
 Morf, W.E. 218(1989)47, 233(1990)41  
 Morgan, E.D. 236(1990)145, 236(1990)227  
 Morgan, J.W. 222(1989)291  
 Morgan, M.S. 215(1988)325  
 Morimoto, M. 220(1989)293  
 Morin, M. 219(1989)67  
 Moriyama, H. 219(1989)123  
 Moronta, A.J. 236(1990)449  
 Morrison, G.M.P. 209(1988)97  
 Morvai, M. 239(1990)165  
 Mosby, V. 208(1988)195, 237(1990)345  
 Moscone, D. 211(1988)195, 213(1988)101  
 Moser, D. 235(1990)221  
 Mosler, H. 224(1989)47  
 Motojima, K. 218(1989)77  
 Motomizu, S. 211(1988)119, 214(1988)289, 214(1988)455, 220(1989)275, 229(1990)121, 246(1991)333  
 Motta, R. 227(1989)29  
 Motte, J.C. 204(1988)127  
 Mottola, H.A. 207(1988)331, 224(1989)305, 233(1990)235, 242(1991)233, 242(1991)241, 249(1991)395  
 Moulin, C. 220(1989)235, 238(1990)291  
 Mowrer, J. 221(1989)259  
 Moylan, C.R. 240(1991)377  
 Mozersky, S.M. 231(1990)249  
 Mucci, A. 229(1990)227  
 Mugnier, J. 227(1989)129  
 Mühl, P. 224(1989)47, 228(1990)229  
 Mukai, H. 220(1989)111, 221(1989)179, 239(1990)277, 249(1991)525  
 Mulchandani, A. 221(1989)215, 234(1990)465  
 Mulholland, M. 223(1989)183, 228(1990)145, 235(1990)27  
 Mullen, W.H. 237(1990)99  
 Müller, C. 206(1988)65  
 Muller, F.L.L. 245(1991)21  
 Müller, H. 230(1990)113, 242(1991)65, 243(1991)179  
 Müller, K.P. 236(1990)197  
 Müller, M. 220(1989)207  
 Müller, V. 230(1990)113  
 Müller, W. 213(1988)47  
 Müllner, S. 249(1991)271  
 Munaf, E. 235(1990)399, 243(1991)247  
 Münch, U. 223(1990)387  
 Mungal, R. 249(1991)387  
 Munk, M.E. 216(1989)57  
 Muñoz-Botella, S. 227(1989)297  
 Muñoz De La Peña, A. 234(1990)263  
 Murakami, M. 219(1989)1

- Murakami, S. 237(1990)245  
 Murakami, T. 235(1990)255  
 Muramatsu, H. 215(1988)91, 217(1989)321, 225(1989)399, 249(1991)323  
 Murata, H. 239(1990)139  
 Muromatsu, A. 237(1990)245  
 Murphy, S.J. 236(1990)145  
 Murti, S.S. 219(1989)177  
 Murugaiah, V. 246(1991)241  
 Musashi, M. 231(1990)147  
 Musch, G. 223(1989)1  
 Musil, S. 209(1988)87  
 Musselman, I.H. 243(1991)139  
 Mussini, P.R. 207(1988)211  
 Musuku, A. 244(1991)1  
 Muta, A. 217(1989)281  
  
 Nacapricha, D. 246(1991)325, 246(1991)329  
 Naeser, P. 206(1988)357  
 Nagabhushan, T.L. 241(1990)315  
 Nagamura, T. 240(1991)329, 245(1991)199  
 Nagaoka, T. 220(1989)269, 222(1989)127, 225(1989)83  
 Nagaosa, Y. 235(1990)279  
 Nagashima, K. 222(1989)211  
 Nagel, B. 213(1988)227  
 Nagels, L.J. 234(1989)75  
 Nagels, M. 211(1988)91  
 Nagy, G. 241(1990)43, 241(1990)55  
 Naidu, G.R.K. 249(1991)533  
 Nakabayashi, A. 221(1989)99  
 Nakagama, T. 217(1989)371, 231(1990)7  
 Nakagawa, G. 211(1988)213, 212(1988)253, 214(1988)439, 220(1989)293, 223(1989)339, 237(1990)135  
 Nakahara, T. 231(1990)1  
 Nakai, S. 248(1991)41  
 Nakai, T. 207(1988)367  
 Nakajima, K. 235(1990)413  
 Nakako, M. 202(1987)131, 212(1988)49  
 Nakamura, M. 215(1988)267, 221(1989)163, 223(1989)319, 231(1990)1, 242(1991)113  
 Nakamura, T. 209(1988)287, 218(1989)111, 238(1990)351  
 Nakamura, Y. 237(1990)237, 242(1991)131  
 Nakanishi, S. 225(1989)283  
 Nakano, K. 247(1991)201  
 Nakao, I. 234(1990)359  
 Nakareiseison, S. 204(1988)169  
 Nakashima, K. 207(1988)77  
 Nakashima, S. 207(1988)291  
 Nakasuka, N. 207(1988)361  
 Nakata, R. 208(1988)81  
 Nakayama, E. 218(1989)25, 224(1989)55  
 Nakayama, M. 201(1987)351  
 Nalbach, U. 213(1988)55  
 Nambodiri, K. 210(1988)151  
 Namieśnik, J. 237(1990)1  
 Narasimhan, S.V. 212(1988)335, 229(1990)149, 239(1990)291  
 Narayanaswamy, R. 213(1988)251, 220(1989)75, 244(1991)71  
 Narinesingh, D. 230(1990)131, 232(1990)273, 249(1991)387  
 Narsito 244(1991)129, 237(1990)189  
 Narusawa, Y. 204(1988)53  
 Naser, N. 234(1990)315, 242(1991)259  
 Nater, E.A. 220(1989)83, 225(1989)233  
 Natsume, Y. 219(1989)123  
 Navaratne, A. 237(1990)107  
 Navarro, J.L. 212(1988)309  
 Navrátilová, Z. 244(1991)193  
 Naylor, S. 241(1990)201, 241(1990)233, 241(1990)281, 247(1991)151  
 Nazarova, N.Yu. 215(1988)289  
 Nazhat, N.B. 204(1988)349  
 Ndiomu, D.P. 213(1988)237  
 Nederlof, M.M. 232(1990)189  
 Neeb, R. 208(1988)337  
 Neely, W.C. 215(1988)353  
 Neff, V.D. 239(1990)7  
 Neill, P.H. 233(1990)149  
 Neils, T.L. 233(1990)229  
 Nelson, A. 207(1988)47  
 Nelson, D.M. 238(1990)263  
 Nelson, G. 207(1988)251  
 Németh, M. 209(1988)87  
 Nese, A. 207(1988)211  
 Neshkova, M.T. 242(1991)73  
 Neu, M. 239(1990)53  
 Neubauer, H.-P. 249(1991)271  
 Neville, G.A. 240(1991)287  
 Newton, R.P. 247(1991)161, 247(1991)177, 247(1991)187  
 Neybergh, H. 222(1989)55  
 Ng, K.H. 218(1989)345  
 Ngo, T.T. 230(1990)131, 232(1990)273, 249(1991)387  
 Ngoviwatchai, A. 215(1988)1  
 Ni, Z.-M. 217(1989)271, 221(1989)85  
 Nianyi, C. 210(1988)175  
 Nicoletti, I. 204(1988)145  
 Nie, L.-H. 209(1988)213, 215(1988)79, 217(1989)327, 229(1990)205, 230(1990)51, 246(1991)421, 246(1991)425  
 Niedtner, R. 238(1990)55  
 Nielsen, J. 214(1988)137, 237(1990)165, 247(1991)45, 249(1991)123  
 Nieman, T.A. 205(1988)195  
 Nikolajsen, K. 214(1988)137, 237(1990)165  
 Niles, R. 221(1989)53  
 Nilsson, M. 249(1991)61, 249(1991)163  
 Nimmo, M. 232(1990)149  
 Nishi, H. 236(1990)281  
 Nishi, S. 229(1990)3  
 Nishida, A. 214(1988)229  
 Nishitani, A. 227(1989)21  
 Niskavaara, H. 231(1990)273  
 Nisman, R. 248(1991)143  
 Nita, K. 204(1988)113  
 Nitta, A. 208(1988)81  
 Njenga, L.W. 212(1988)133  
 Nnodimele, R.A. 229(1990)291  
 Nóbrega, J.A. 214(1988)397, 245(1991)211  
 Noda, I. 250(1991)131  
 Noda, Y. 245(1991)35  
 Noël, D. 217(1989)135  
 Noguchi, Y. 204(1988)339  
 Nogueiras, L. 238(1990)95  
 Nohta, H. 208(1988)59, 217(1989)263  
 Noid, D.W. 235(1990)143  
 Nomizu, T. 211(1988)293  
 Nomura, A. 229(1990)3



- Nomura, T. 237(1990)135, 243(1991)273, 245(1991)71, 248(1991)329
- Nonidez, W.K. 233(1990)59
- Nonova, D. 207(1988)373
- Nordhoff, E. 241(1990)175
- Norén, J.G. 241(1990)299
- Noufi, M. 228(1990)117, 234(1990)475
- Nourse, B.D. 210(1988)63, 228(1990)1
- Novič, M. 243(1991)131
- Novikov, E.A. 230(1990)157
- Nowak, G. 235(1990)135
- Nozaki, O. 205(1988)255
- Nukatsuka, I. 248(1991)529
- Núñez, M.D. 234(1990)269
- Nurchi, V. 222(1989)359, 239(1990)157
- Nuzillard, J.-M. 242(1991)37
- Nyasulu, F. 220(1989)287
- Nyberg, F. 238(1990)331
- Nyholm, L. 223(1989)429
- Nyiredy, S. 236(1990)83
- Obata, Y. 232(1990)389
- Obergfell, P. 234(1990)141
- Oberink, J.W. 249(1991)257
- Oberrauch, E. 235(1990)177
- Obokata, T. 225(1989)425
- O'Connell, K. 236(1990)251
- Oda, K. 225(1989)273
- Oda, T. 244(1991)275
- Odashima, T. 244(1991)223
- Odelius, H. 241(1990)299
- Oeggerli, A. 238(1990)101
- Ogbomo, I. 249(1991)137
- Ogi, M. 224(1989)133
- Ogura, K. 220(1989)269, 222(1989)127, 225(1989)83
- O'Halloran, K.R. 249(1991)519
- O'Halloran, R.A.J. 237(1989)149
- Ohara, M. 242(1991)57
- O'Hara, P.B. 205(1988)161
- Ohba, Y. 205(1988)255
- Ohkura, T. 241(1990)273
- Ohkura, Y. 201(1987)351, 207(1988)243, 208(1988)59, 215(1988)259, 217(1989)263, 248(1991)213
- Öhman, P. 221(1989)77
- Ohno, N. 214(1988)271, 221(1989)109
- Ohshima, H. 232(1990)385
- Ohta, K. 217(1989)377, 236(1990)479
- Ohtsuka, C. 223(1989)339
- Ohura, H. 214(1988)349
- Ohzeki, K. 248(1991)529
- Ohzora, H. 237(1990)155
- Oi, T. 231(1990)147
- Oikawa, K. 233(1990)135
- Okada, T. 221(1989)117, 230(1990)9
- Okamoto, A. 214(1988)415
- Okamoto, N. 228(1990)101
- Okamoto, Y. 218(1989)173, 228(1990)23, 228(1990)31, 232(1990)389, 239(1990)139, 248(1991)155
- Okazaki, S. 240(1991)329, 245(1991)199
- Okazaki, T. 208(1988)325, 209(1988)327
- O'Kennedy, R. 212(1988)355
- Okubo, K. 209(1988)287
- Okudaira, K. 226(1989)109
- Okuma, H. 244(1991)161
- Okumura, K. 228(1990)159, 236(1990)441, 239(1990)13
- Okutani, T. 208(1988)351
- Okuyama, T. 202(1987)237
- Olberding, E.L. 236(1990)173
- Oldham, K.B. 216(1989)177
- Oleksy-Frenzel, J. 233(1990)77
- Oliphant, N. 218(1989)101
- Olive, J. 201(1987)193, 219(1989)257, 248(1991)59, 249(1991)337
- Oliveira, P.V. 245(1991)211
- Olivieri, A.C. 233(1990)315
- Olling, M. 225(1989)137
- Olson, D.C. 220(1989)55
- Olson, D.L. 237(1990)381
- Olsson, B. 206(1988)49, 209(1988)123
- Olsson, L. 224(1989)31
- Olthuis, W. 229(1990)71, 237(1990)71
- Olucha, J.C. 242(1990)25
- Oms, M.T. 228(1990)293, 233(1990)159
- Onar, A.N. 229(1990)145
- Onishi, H. 232(1990)287
- Onizuka, K. 232(1990)389
- Onoda, M. 214(1988)289
- Onofrey, T.J. 228(1990)235
- Ooms, J.B. 250(1991)45
- Opekar, F. 203(1987)1
- Ordieres, A.J.M. 202(1987)141
- O'Reilly, A.M. 204(1988)247
- Ormaza-González, F.I. 244(1991)63
- Orosz, G. 247(1991)141
- Orrit, J. 229(1990)267
- Ortega, M.G. 229(1990)153
- Ortiz, P.I. 249(1991)395
- Ortiz, R. 215(1988)307
- Ortner, H.M. 233(1990)243
- Osei-Twum, E.Y. 235(1990)375
- O'Shea, T. 224(1989)65
- Oshima, M. 211(1988)119, 229(1990)121
- Osipov, A.P. 237(1990)285
- Ossaka, T. 231(1990)147
- Osteryoung, J. 234(1990)275
- Östman, C.E. 208(1988)183
- Osuga, T. 227(1989)21
- O'Sullivan, J.E. 232(1990)161
- Otero, J.C. 240(1991)395
- Otto, M. 235(1990)169, 236(1990)315, 239(1990)61
- Oude Elferink, R.F.M. 211(1988)43
- Oudejans, R.C.H.M. 248(1991)553
- Oudsema, J.W. 236(1990)3
- Oyama, M. 240(1991)329, 245(1991)199
- Oyama, Y. 248(1991)367
- Ozaki, M. 217(1989)61
- Ozaki, T. 211(1988)213, 226(1989)187
- Ozinga, W. 211(1988)99
- Özkan, G. 234(1990)339
- Ozsoz, M. 234(1990)315, 245(1991)139
- Pacey, G.E. 204(1988)169, 209(1988)157, 214(1988)385, 214(1988)391, 224(1989)383, 237(1990)503, 245(1991)235
- Padovani, P. 241(1990)209

- Padrón, G. 223(1989)361, 239(1990)301  
 Paek, S.-H. 248(1991)517  
 Pai, S.-C. 211(1988)257, 211(1988)271, 229(1990)115, 232(199)345  
 Pal, B.K. 206(1988)345  
 Palleschi, G. 209(1988)223, 213(1988)101, 234(1990)459, 245(1991)63, 245(1991)151  
 Palma, Sr., R.J. 241(1990)115  
 Palmer, P.T. 215(1988)169  
 Palmisano, F. 207(1988)183  
 Palshis, E.M. 212(1988)331  
 Pals, M. 231(1990)59, 248(1991)429  
 Pancheva, E.M. 242(1991)73  
 Pannocchia, G. 234(1990)425  
 Pant, B.C. 232(1990)43  
 Pantel, S. 202(1987)1, 203(1987)91  
 Pap, T.L. 248(1991)441  
 Papanastasiou, G. 221(1989)295, 222(1989)189, 229(1990)261  
 Papoff, P. 247(1991)73  
 Papoušek, D. 240(1990)167  
 Pardue, H.L. 216(1989)69, 220(1989)23, 224(1989)243, 224(1989)289, 224(1989)351, 237(1990)413  
 Paré, J.R.J. 241(1990)227  
 Pariente, F. 242(1991)267  
 Paris, A. 241(1990)265  
 Parisi, A.F. 238(1990)95  
 Parker, G.F. 236(1990)423  
 Parker, K.S. 238(1990)171  
 Parmentier, F. 234(1989)75  
 Parolis, H. 241(1990)187  
 Parolis, L.A.S. 241(1990)187  
 Parreaux, D. 238(1990)257  
 Parvoli, G. 224(1989)119, 244(1991)9  
 Pascual, C.B. 224(1989)97  
 Pasquini, C. 245(1991)183  
 Pastore, P. 223(1989)193, 230(1990)29, 239(1990)95  
 Pastorelli, N. 225(1989)159  
 Patel, K.S. 208(1988)91, 237(1990)491  
 Patonay, G. 207(1988)251, 232(1990)239  
 Patriarche, G.J. 206(1988)369, 236(1990)299, 242(1991)91  
 Patterson, H.H. 206(1988)263  
 Patterson, J.E. 226(1989)99  
 Pattichis, K. 247(1991)151  
 Patton, B.D. 215(1988)13  
 Pattyn, G.G.O. 247(1991)229  
 Paturel, L. 233(1990)207  
 Pavlović, M.S. 209(1988)185  
 Pawlak, M.K. 202(1987)85, 202(1987)97  
 Payer, K. 220(1989)1, 241(1990)71  
 Payne, B.P. 226(1989)183  
 Peake, D.A. 228(1990)169  
 Pedersen, K.M. 238(1990)191  
 Pedersen, N.H. 238(1990)139  
 Peeters, A. 223(1989)1  
 Peguin, S. 222(1989)83  
 Pekov, G. 232(1990)413  
 Pelemans, W. 247(1991)243  
 Pelizzetti, E. 212(1988)171  
 Pellerin, F. 201(1987)145  
 Pelletier, M. 231(1990)115  
 Peña, J.M. 244(1991)81  
 Percelay, L. 209(1988)249  
 Pereira, W.E. 228(1990)69  
 Pérez, C. 243(1991)121  
 Perez-Bendito, D. 212(1988)223, 217(1989)239, 218(1989)313, 222(1989)269, 224(1989)185, 225(1989)115, 228(1990)123, 229(1990)27, 230(1990)145, 237(1990)207, 237(1990)353, 239(1990)221, 242(1991)147, 244(1991)81  
 Pérez Conde, C. 230(1990)35  
 Pérez López, J.A. 244(1991)49  
 Perez Pavon, J.L. 230(1990)217, 234(1990)239  
 Pérez-Ruiz, T. 209(1988)79, 244(1991)99  
 Perez Trancon, J. 228(1990)317  
 Perrot, H. 231(1990)305  
 Perry, L.M. 225(1989)415, 237(1990)273  
 Persson, B. 249(1991)43, 250(1991)203  
 Persson, J.-Å. 244(1990)109  
 Pescada, C. 226(1989)229, 226(1989)239  
 Pessenda, L.C.R. 214(1988)239  
 Petersen, K. 215(1988)277  
 Petersen, W. 248(1991)77  
 Petersson, B.A. 209(1988)231, 209(1988)239  
 Petilino, R. 227(1989)29  
 Petkovski, D. 210(1988)109  
 Petr, R. 239(1990)19  
 Petrich, M. 228(1990)229  
 Petró-Turza, M. 239(1990)165  
 Petrucci, F. 248(1991)241  
 Petsev, N. 232(1990)413  
 Pettine, M. 209(1988)315  
 Petty, M.C. 240(1990)29, 240(1991)305  
 Pia, S.H. 231(1990)21  
 Piazza, S. 205(1988)229  
 Piccardi, G. 202(1987)151  
 Pihlar, B. 243(1991)71, 243(1991)131  
 Pijpers, F.W. 233(1990)155  
 Pilloton, R. 213(1988)101  
 Pinckney, D.J. 232(1990)31  
 Pinel, R. 228(1990)129  
 Pingarrón, J.M. 234(1990)309  
 Pingarrón Carrazón, J.M. 216(1989)231, 246(1991)293  
 Pinillos, J.L. 221(1989)173  
 Pintér-Szakács, M. 202(1987)159, 239(1990)165  
 Pita-Calvo, C. 231(1990)321  
 Piu, P. 226(1989)315, 248(1991)301  
 Plant, A.L. 228(1990)107  
 Plaskoň, V. 228(1990)259  
 Plavšić, M. 232(1990)131  
 Pletcher, D. 246(1991)267, 248(1991)173  
 Plit, L. 248(1991)271  
 Plötz, F. 249(1991)25  
 Pobi, M. 242(1991)107  
 Pobozy, E. 222(1989)109  
 Poch, M. 234(1990)67, 241(1990)31  
 Poe, R.B. 250(1991)37  
 Pohl, H.-J. 223(1989)247  
 Pohlmann, A. 235(1990)329  
 Polášek, M. 212(1988)279, 218(1989)151, 246(1991)283  
 Pollevoy, Y. 249(1991)503  
 Polo, L.M. 234(1990)309  
 Polo-Diez, L.M. 206(1988)351, 216(1989)231, 218(1989)167, 219(1989)329, 246(1991)293  
 Pomaville, R.M. 225(1989)193



- Pons, M.N. 213(1988)231, 219(1989)309, 238(1990)117, 238(1990)243
- Poole, C.F. 216(1989)109, 218(1989)241, 225(1989)193, 236(1990)3, 236(1990)51
- Poole, S.K. 216(1989)109, 218(1989)241, 236(1990)3, 236(1990)51
- Pope, A. 230(1990)131
- Poppe, H. 228(1990)39
- Porcelli, F. 221(1989)157
- Porretta, S. 238(1990)231
- Porter, C.D. 240(1991)273
- Porter, M.D. 217(1989)31
- Portmann, P. 206(1988)173
- Postaire-Vigreux, M. 225(1989)217
- Postma Kelder, S.J. 233(1990)251, 234(1990)285
- Potter, N.M. 221(1989)167
- Pouget, J. 227(1989)129
- Poulou, M. 223(1989)309
- Powell, H.K.J. 207(1988)103, 211(1988)141, 228(1990)327, 248(1991)95, 249(1991)451
- Pozzi, M. 207(1988)211
- Pracna, P. 240(1990)167
- Pradeau, D. 225(1989)217
- Pradella, M. 223(1989)269, 223(1989)293
- Pramanik, B.N. 241(1990)315
- Pramauero, E. 212(1988)171
- Pranitis, D.M. 217(1989)123
- Prasada Rao, M.S. 242(1991)229
- Prasada Rao, T. 242(1991)215
- Prat, M.D. 227(1989)219
- Pratt, K.W. 215(1988)21
- Preston, T. 241(1990)255
- Pretsch, E. 206(1988)161, 206(1988)173, 229(1990)17, 233(1990)213, 248(1991)415
- Prevot, M. 223(1989)309
- Prieto, H. 238(1990)95
- Prinzing, U. 249(1991)137
- Prochaska, K. 206(1988)215
- Prognon, P. 211(1988)333, 227(1989)319
- Pruski, M. 217(1989)31
- Przybylski, M. 241(1990)289
- Przybyt, M. 237(1990)399, 239(1990)269
- Przyjazny, A. 226(1989)213, 246(1991)103
- Pu, B.Y. 246(1991)347
- Puchwein, G. 223(1989)95
- Puhakka, O. 207(1988)195
- Pulay, P. 240(1990)159
- Pungor, E. 201(1987)109, 208(1988)117, 208(1988)133, 216(1989)163, 234(1990)49, 234(1990)57, 241(1990)43, 241(1990)55, 243(1991)55
- Purcell, M. 249(1991)55
- Puri, B.K. 230(1990)17
- Pusterhofer, J. 205(1988)1
- Puzic, R. 238(1990)161
- Pyrzyńska, K. 238(1990)285
- Qi, D. 248(1991)177
- Qi, W. 214(1988)279
- Qian, C. 221(1989)353
- Qian, J. 244(1991)165
- Quentel, F. 230(1990)83
- Quiñones, Y. 223(1989)361
- Quintana, M. 239(1990)301
- Quintero, M.C. 222(1989)269
- Racek, J. 239(1990)19
- Radić, N. 231(1990)137
- Radtke, D.E. 231(1990)317
- Radzi, A.M.B.M. 209(1988)363, 225(1989)323
- Raemdonck, A. 234(1990)187
- Rahn, R.O. 248(1991)595
- Rajaković, L. 217(1989)111
- Rajan, S.C.S. 219(1989)177
- Rama Devi, P. 249(1991)533
- Rama Mohan Rao, A. 242(1991)229
- Ramirez, M. 239(1990)229
- Ramirez, M.T. 246(1991)435
- Ramis Ramos, G. 204(1988)247, 208(1988)1, 220(1989)145, 223(1989)327, 223(1989)419, 235(1990)317, 237(1990)473, 242(1991)143
- Ramos Rubio, A.L. 205(1988)139, 205(1988)149
- Ramsay, G. 215(1988)61
- Ramsey, M.H. 206(1988)203
- Ramsey, R.S. 236(1990)213
- Ramstad, T. 204(1988)95
- Ramuz, H. 228(1990)155
- Ranc, M.L. 248(1991)183
- Rangarajan, S. 239(1990)291
- Rantala, R.T.T. 220(1989)263
- Ranville, J. 249(1991)509
- Rao, C.R.M. 237(1990)251, 244(1991)245
- Rao, D. 241(1990)265
- Rao, T.H. 237(1990)325
- Rapsomanikis, S. 248(1991)563
- Rapta, M. 230(1990)163
- Raschke, U. 238(1990)55
- Rashid, F. 238(1990)427
- Rasmussen, E.M. 235(1990)77
- Rassmann, U. 241(1990)147
- Ratcliffe, N.M. 239(1990)257
- Rathore, H.P.S. 242(1991)225
- Rathore, H.S. 209(1988)223
- Rattaiah, G.V. 214(1988)439
- Rattanaiderom, S. 243(1991)187
- Raurich, J.G. 234(1990)221
- Rautschek, H. 243(1991)179
- Ravenscroft, J.E. 212(1988)1, 235(1990)287
- Razinger, M. 210(1988)63
- Readman, J. 207(1988)47
- Realini, F. 214(1988)367, 234(1990)167
- Rechnitz, G.A. 222(1989)247, 234(1990)453, 237(1990)91, 237(1990)107, 243(1991)1, 243(1991)157
- Reddi, G.S. 237(1990)251, 244(1991)245
- Reddy, D. 229(1990)9
- Reddy, M.L.P. 242(1991)215
- Reddy, M.M. 232(1990)123
- Reents, Jr., W.D. 237(1990)83
- Reeves, R.D. 232(1990)317
- Regnier, F.E. 249(1991)185
- Rehr, B. 249(1991)25
- Reich, G. 201(1987)153, 201(1987)171
- Reijn, J.M. 204(1988)29, 248(1991)473, 248(1991)483
- Rein, J. 236(1990)99, 248(1991)263
- Reinerink, E.J.M. 227(1989)49

- Reinhardt, B. 225(1989)253, 238(1990)201, 249(1991)25  
 Reinhoudt, D.N. 201(1987)117, 230(1990)59, 230(1990)67, 231(1990)41, 233(1990)251, 234(1990)285, 245(1991)159, 248(1991)307  
 Reis, B.F. 206(1988)253, 214(1988)397, 222(1989)379, 226(1989)129, 234(1990)207, 245(1991)211  
 Rempel, D.L. 250(1991)105  
 Ren, X. 238(1990)307  
 Ren, Y. 222(1989)323, 234(1990)483  
 Renjun, Z. 210(1988)195  
 Renman, L. 201(1987)1, 201(1987)263, 201(1987)269, 202(1987)117, 202(1987)123, 207(1988)17, 207(1988)27, 207(1988)37, 208(1988)237, 208(1988)301, 209(1988)339  
 Reslow, M. 219(1989)27  
 Rethwisch, D.G. 222(1989)221  
 Reviejo García, A.J. 216(1989)231, 246(1991)293  
 Rhee, J.-S. 220(1989)55  
 Rhines, T.D. 227(1989)387, 231(1990)231  
 Riba, J. 234(1990)395  
 Rice, P.D. 221(1989)239  
 Ridder, C. 217(1989)303  
 Rigano, C. 222(1989)385  
 Riggan, A. 249(1991)185  
 Riggan, R.M. 249(1991)201  
 Rigin, V.I. 231(1990)85  
 Rigo, A. 237(1990)391  
 Rigolin, F. 223(1989)269, 223(1989)293  
 Riley, C. 201(1987)335  
 Riley, J.P. 222(1989)43, 229(1990)115, 232(1990)345  
 Rinne, D. 220(1989)207  
 Ríos, A. 211(1988)281, 211(1988)287, 214(1988)375, 216(1989)275, 224(1989)127, 224(1989)169, 234(1990)227, 239(1990)211  
 Ríos Castro, A. 241(1990)153  
 Risinger, L. 224(1989)13, 231(1990)165  
 Ristić-Šolajić, M. 226(1989)293  
 Rius, F.X. 225(1989)69, 239(1990)311, 242(1990)25  
 Rivas, C. 234(1990)253  
 Rivier, J. 249(1991)215  
 Rizk-Ouaini, R. 231(1990)161  
 Rizzo, A. 204(1988)233  
 Ro, C.-U. 243(1991)139  
 Roberge, H. 217(1989)135  
 Roberts, E.C. 236(1990)131  
 Roberts, J.A. 201(1987)311  
 Robien, W. 233(1990)213, 248(1991)415  
 Robles, L.C. 247(1991)19  
 Rocks, B.F. 201(1987)335  
 Roda, A. 202(1987)175, 205(1988)229, 227(1989)29  
 Rodgers, A.H. 239(1990)121  
 Rodriguez Flores, J. 212(1988)355  
 Rodriguez-Gamonal, V. 206(1988)351  
 Rodriguez Garcia, E. 230(1990)217  
 Rodriguez Procopio, J. 234(1990)175  
 Roekens, E. 204(1988)179  
 Rogge, M. 220(1989)207  
 Rogstad, A. 222(1989)35  
 Rohwedder, J.J.R. 222(1989)379  
 Rojas, I. 239(1990)301  
 Rojas-Hernández, A. 246(1991)435  
 Roland, U. 240(1991)363  
 Romagnoli, R. 234(1990)331  
 Romei, C. 245(1991)177  
 Romero, R.A. 236(1990)449  
 Rondinini, S. 207(1988)211  
 Ronsick, C.S. 249(1991)297  
 Rood, H.D. 236(1990)115  
 Roos, T. 205(1988)249  
 Root, D.P. 225(1989)105, 236(1990)445  
 Roque, N.F. 236(1990)501  
 Rosales, D. 228(1990)301  
 Roscoe, G.E. 234(1990)439  
 Röse, P. 235(1990)65, 235(1990)163  
 Rosen, M.A. 205(1988)161  
 Rosés, M. 204(1988)311  
 Rosman, K.J.R. 235(1990)367  
 Rossano, Jr., A.J. 236(1990)131  
 Rossi, G. 244(1991)247, 244(1991)253  
 Rostad, C.E. 228(1990)69  
 Rouillier, M.C. 238(1990)117  
 Rouilly, M. 218(1989)47  
 Rousseau, J.L. 201(1987)145  
 Rowe, G.K. 246(1991)233  
 Rowley, S.J. 216(1989)147  
 Roy, B. 249(1991)349  
 Roy, D.N. 229(1990)277  
 Rubio, A.L.R. 228(1990)293  
 Rubio, S. 224(1989)185, 229(1990)27, 237(1990)207, 244(1991)81  
 Rubio-Barroso, S. 206(1988)351, 218(1989)167  
 Rück, A. 227(1989)227  
 Rudewicz, P.J. 241(1990)273  
 Rudolph, J. 236(1990)197  
 Ruf, H. 211(1988)317  
 Ruiz Barrio, A. 246(1991)293  
 Runqing, W. 210(1988)189  
 Ruoff, P. 219(1989)147  
 Rusling, J.F. 235(1990)307  
 Russell, D.A. 220(1989)75  
 Russell, G.C. 237(1990)317  
 Russeva, E. 219(1989)127  
 Rusterholz, B. 233(1990)295  
 Rutan, S.C. 215(1988)131, 224(1989)243, 224(1989)315, 246(1991)1, 250(1991)37  
 Rutgeerts, P. 247(1991)223, 247(1991)243  
 Rütther, F. 238(1990)201, 249(1991)25  
 Rüttinger, H.H. 202(1987)75  
 Ruz, J. 211(1988)281  
 Ruzicka, J. 204(1988)7, 214(1988)1, 214(1988)197, 216(1989)243, 218(1989)291, 218(1989)303, 224(1989)373, 234(1990)31, 237(1990)329, 249(1991)77, 249(1991)451  
 Rytter, E. 240(1990)61  
 Saab, W. 248(1991)235  
 Saad, I. 213(1988)267  
 Saadalla-Nazhat, R.A. 204(1988)349  
 Saakes, A. 233(1990)321  
 Saastamoinen, A. 217(1989)353  
 Sabatini, S. 237(1990)391  
 Saber, A. 233(1990)207  
 Sacco, P. 206(1988)289  
 Safavi, A. 232(1990)351, 244(1991)231  
 Saha, B. 248(1991)615  
 Sahao Jr., J. 217(1989)85

- Sahm, H. 249(1991)25  
 Sai, P.S.T. 242(1991)215  
 Saigne, C. 203(1987)11  
 Saini, G. 212(1988)171  
 Saini, S. 245(1991)133, 249(1991)1  
 Saito, K. 237(1990)245  
 Saito, M. 236(1990)351, 242(1991)117  
 Saito, Y. 205(1988)29, 226(1989)109  
 Saitta, M. 220(1989)135  
 Saka Amini, M.A. 245(1991)129  
 Sakai, H. 221(1989)249, 230(1990)189  
 Sakai, K. 247(1991)13  
 Sakai, T. 214(1988)271, 221(1989)109, 244(1991)289, 248(1991)501  
 Sakaki, K. 243(1991)109  
 Sakamaki, S. 219(1989)181  
 Sakamoto, H. 206(1988)273  
 Sakamoto-Arnold, C.M. 201(1987)83  
 Sakashita, H. 208(1988)81  
 Sakharuk, T.A. 249(1991)331  
 Sala, G. 235(1990)209  
 Salako, L.A. 206(1988)339  
 Salinas, F. 233(1990)289, 234(1990)263  
 Saller, H. 210(1988)33  
 Salles, C. 241(1990)265  
 Salvador, A. 224(1989)123, 234(1990)253, 238(1990)417  
 Salvador Carreño, A. 235(1990)405  
 Salvi, A.M. 243(1991)61  
 Salzer, R. 240(1991)363  
 Samanifar, M. 215(1988)249  
 Sammartano, S. 222(1989)385  
 Sammells, A.F. 217(1989)101, 226(1989)153  
 Samson, R. 213(1988)165  
 Sanchez, F.G. 222(1989)177, 228(1990)293  
 Sanchez, J. 228(1990)251  
 Sanchez-Batanero, P. 236(1990)299  
 Sanchez Perez, A. 225(1989)247  
 Sanchez Rodriguez, R.M. 225(1989)247  
 Sanchez Rojas, F. 224(1989)153  
 Sanchez Saez, J.J. 247(1991)295  
 Sánchez Uriá, E. 234(1990)133  
 Sandei, L. 238(1990)231  
 Sanders, J. 222(1989)19  
 Sanders, J.K.M. 241(1990)281  
 Sandra, P. 227(1989)303  
 Sanji, M. 211(1988)293  
 Sanke Gowda, H. 209(1988)293  
 Sano, A. 201(1987)77, 225(1989)351, 234(1990)359  
 Sano, T. 220(1989)13  
 Santana, J.J. 202(1987)207  
 Santos, L.M. 206(1988)85  
 Santosa, S.J. 237(1990)189  
 Santos-Delgado, M.J. 219(1989)329  
 Santucci, E. 233(1990)85  
 Sanz, J.F. 228(1990)301  
 Sanz-Medel, A. 212(1988)181, 212(1988)235, 225(1989)339, 234(1990)127, 234(1990)133, 234(1990)181, 234(1990)233, 238(1990)297  
 Sanz-Nebot, V. 244(1991)183  
 Sarantonis, E.G. 239(1990)195  
 Saraswati, R. 237(1990)325  
 Sarda, A. 248(1991)235  
 Sargi, L. 227(1989)319  
 Saris, T. 222(1989)1  
 Sárkány, J. 240(1990)139  
 Sarzyńska, J. 240(1991)277  
 Sasaki, H. 221(1989)109  
 Sasaki, S. 217(1989)61, 239(1990)73  
 Sasaki, S.-I. 202(1987)237, 215(1988)155, 219(1989)213, 220(1989)155, 225(1989)89  
 Sasaki, Y. 218(1989)77, 244(1991)239  
 Sasson, Y. 238(1990)389  
 Satake, M. 230(1990)17, 237(1990)201  
 Sato, H. 206(1988)281, 246(1991)405  
 Sato, J. 209(1988)287  
 Sato, K. 207(1988)367, 236(1990)459  
 Sato, T. 230(1990)195  
 Sato, Y. 209(1988)351  
 Satoh, I. 214(1988)409, 214(1988)415  
 Sauerbrei, A. 238(1990)211  
 Saulnier, J.M. 247(1991)79  
 Sausa, K. 208(1988)255  
 Savolainen, K. 212(1988)297  
 Savory, J. 224(1989)83  
 Sawa, Y. 220(1989)293  
 Sawamoto, H. 228(1990)307, 243(1991)251  
 Sawatzki, J. 240(1991)239  
 Scandola, M. 232(1990)253  
 Scarano, G. 245(1991)177  
 Schaffar, B.P.H. 217(1989)1, 225(1989)293  
 Scharff, J.P. 212(1988)105  
 Schasfoort, R.B.M. 238(1990)323  
 Scheeline, A. 237(1990)381  
 Scheeren, P.J.H. 215(1988)143, 226(1989)53, 226(1989)73  
 Scheggi, A.M. 207(1988)343  
 Scheller, F. 243(1991)17  
 Schelp, C. 249(1991)25  
 Schepens, P.J.C. 244(1991)1  
 Scheper, T. 213(1988)47, 226(1989)87, 238(1990)201, 238(1990)211, 249(1991)25, 249(1991)113  
 Schiavon, G. 221(1989)27  
 Schiemenz, H. 213(1988)55  
 Schirone, A. 232(1990)337  
 Schlue, W.-R. 226(1989)247  
 Schmalz, M. 249(1991)271  
 Schmid, E.R. 241(1990)241, 241(1990)321  
 Schmid, R.D. 225(1989)293, 234(1990)83, 234(1990)107, 234(1990)113, 234(1990)213, 234(1990)247, 245(1991)1, 248(1991)351  
 Schmidt, H.-L. 249(1991)137  
 Schmidt, Th. 228(1990)55  
 Schmidt, W. 207(1988)225  
 Schmit, J.-P. 249(1991)495  
 Schmitt, G.A. 236(1990)157  
 Schneckenburger, H. 227(1989)227  
 Schneider, K.H. 249(1991)25  
 Schnurrbusch, M. 237(1990)233  
 Schoenmakers, P.J. 250(1991)1  
 Schöffski, K. 239(1990)283  
 Schollmeyer, E. 226(1989)247  
 Schorb, K. 211(1988)317  
 Schrader, B. 240(1991)239  
 Schram, K.H. 247(1991)201  
 Schramm, W. 248(1991)517

- Schröder, M. 245(1991)243  
 Schroeder, F. 213(1988)221  
 Schubert, A.J. 211(1988)83  
 Schubert, F. 243(1991)17, 245(1991)133  
 Schubert, P. 220(1989)243  
 Schuette, S.A. 236(1990)141  
 Schügerl, K. 213(1988)1, 225(1989)253, 226(1989)87, 238(1990)201, 238(1990)211, 249(1991)25, 249(1991)87, 249(1991)113  
 Schulman, S.G. 227(1989)165  
 Schulmeister, T. 201(1987)305  
 Schulten, H.-R. 223(1989)371  
 Schulze, G. 214(1988)121  
 Schwartz, L.M. 220(1989)171, 225(1989)205  
 Schwarz, Th. 219(1989)273  
 Schwedt, G. 203(1987)23, 220(1989)195, 236(1990)273, 236(1990)345  
 Schweikert, E.A. 218(1989)85  
 Schweitzer, G.K. 225(1989)323  
 Schweitzer, K. 209(1988)363  
 Schwillens, P.L.W.J. 225(1989)137  
 Scordamaglia, R. 235(1990)229  
 Scott, D.M. 215(1988)311  
 Scott, D.O. 246(1991)181  
 Scott, D.R. 211(1988)11, 223(1989)105, 228(1990)177, 246(1991)391  
 Scott, L.D.L. 248(1991)361  
 Secor, H.V. 234(1990)365  
 Secq, A. 238(1990)35  
 Seeber, R. 226(1989)315, 233(1990)143, 248(1991)301  
 Seeman, J.I. 234(1990)365  
 Seeverens, P.J.H. 226(1989)53, 226(1989)73  
 Seiler, K. 233(1990)41, 244(1991)151  
 Seitz, W.R. 217(1989)217, 221(1989)1, 236(1990)251, 237(1990)265, 249(1991)373  
 Sekerka, I. 234(1990)199  
 Seki, A. 215(1988)301, 232(1990)267  
 Sekido, E. 221(1989)99, 224(1989)145, 237(1990)245, 248(1991)511  
 Sekimukai, S. 244(1991)161  
 Selala, M.I. 244(1991)1  
 Sello, G. 235(1990)209  
 Selves, J.-L. 229(1990)267  
 Senda, M. 230(1990)75  
 Sendra, J.M. 212(1988)309  
 Senesi, N. 232(1990)51, 232(1990)77  
 Sengupta, B. 219(1989)339  
 Sennerby, L. 241(1990)299  
 Sens, E. 210(1988)135  
 Sensui, M. 245(1991)43  
 Sentell, K.B. 246(1991)139  
 Sentimenti, E. 234(1990)425  
 Sepaniak, M.J. 229(1990)169, 236(1990)237  
 Serfass, R.E. 248(1991)229  
 Seritti, A. 245(1991)177  
 Sernetz, M. 213(1988)245  
 Serra, G. 232(1990)337  
 Sesartić, L. 242(1991)221  
 Sethi, R.S. 231(1990)33  
 Sevenich, D.M. 222(1989)221  
 Seward, E.M. 204(1988)223  
 Seydel, J.K. 235(1990)195  
 Sferlazzo, G. 233(1990)143  
 Shabanowitz, J. 225(1989)1  
 Shadbolt, P. 249(1991)195  
 Shah, A. 236(1990)469  
 Shalkowski, E. 215(1988)337  
 Shan, X.-Q. 217(1989)271, 250(1991)71  
 Shana, Z.A. 231(1990)317  
 Shao, M.H. 248(1991)31  
 Shao, Y.Y. 221(1989)239  
 Sharma, A. 208(1988)53, 212(1988)261, 230(1990)213  
 Sharma, P. 233(1990)101  
 Shatkay, A. 206(1988)57, 236(1990)431  
 Shaw, S. 208(1988)343  
 Shellum, C. 227(1989)97  
 Shelly, D.C. 246(1991)151  
 Shen, F.-H. 214(1988)97  
 Shen, H. 212(1988)145  
 Shen, Z. 235(1990)323  
 Sheriff, T.S.S. 218(1989)331  
 Shetty, P.H. 218(1989)241, 236(1990)51  
 Sheu, T.W. 215(1988)353  
 Shi, L. 248(1991)257  
 Shi, R. 208(1988)337  
 Shi, Z. 244(1991)165  
 Shibamoto, T. 248(1991)619  
 Shibata, T. 230(1990)75  
 Shibasaki, T. 201(1987)185, 202(1987)187  
 Shida, J. 233(1990)135  
 Shigetomi, Y. 219(1989)171  
 Shihomatsu, H.M. 228(1990)333  
 Shijo, Y. 242(1991)209  
 Shillady, D.D. 246(1991)1  
 Shimabayashi, Y. 228(1990)159, 236(1990)441, 239(1990)13  
 Shimada, K. 232(1990)281  
 Shimizu, I. 215(1988)301  
 Shimizu, T. 242(1991)209  
 Shimonishi, Y. 223(1989)361, 239(1990)301  
 Shinka, T. 241(1990)273  
 Shiono, S. 202(1987)131, 212(1988)49, 231(1990)213  
 Shiozawa, K.-i. 239(1990)107  
 Shiquan, T. 242(1991)209  
 Shirai, T. 237(1990)155  
 Shiraki, K. 224(1989)1  
 Shishkin, S.V. 236(1990)483  
 Shishkina, T.V. 236(1990)483, 243(1991)81  
 Shiundu, P.M. 237(1990)361  
 Shoda, J. 227(1989)21  
 Shono, T. 203(1987)85, 231(1990)107  
 Shpigun, L.K. 230(1990)157  
 Shrivastava, M. 237(1990)491  
 Shukla, A. 208(1988)91  
 Shum, S.C.K. 250(1991)61  
 Shurvell, H.F. 240(1991)287  
 Shuzeng, Z. 210(1988)189  
 Si, Z. 231(1990)157, 231(1990)295, 247(1991)37  
 Si, Z.-K. 245(1991)109  
 Siddiqi, I.W. 224(1989)329  
 Siegel, M.M. 237(1990)459, 241(1990)315  
 Siepak, J. 218(1989)143  
 Sigon, F. 214(1988)367, 234(1990)167  
 Silberring, J. 238(1990)331  
 Šilená, I. 209(1988)357

- Silva, M. 212(1988)223, 217(1989)239, 218(1989)313, 222(1989)269, 228(1990)123, 229(1990)107, 237(1990)353, 239(1990)221
- Silver, G.L. 217(1989)395
- Simal Lozano, J. 247(1991)121
- Šimičková, B. 209(1988)357
- Šimičková-Štajerová, B. 226(1989)177
- Simmleit, N. 223(1989)371
- Simó Alfonso, E.F. 235(1990)317
- Simon, A. 240(1991)239
- Simon, W. 218(1989)47, 233(1990)41, 233(1990)295, 244(1991)151
- Simoni, G. 249(1991)169
- Simoni, J. 249(1991)169
- Simoni, P. 202(1987)175
- Simpson, C.F. 213(1988)237
- Singelenberg, F. 240(1991)311
- Singer, D. 206(1988)223
- Singer, R. 201(1987)289
- Šinibaldi, M. 204(1988)145
- Sioda, R.E. 215(1988)295, 228(1990)323, 232(1990)401
- Sjöegren, C.E. 222(1989)135
- Sjöholm, P.-E. 213(1988)207
- Sketch, C.L. 221(1989)289
- Skogerboe, K.J. 237(1990)299
- Skorzynski, Z. 225(1989)391
- Skothheim, T.A. 228(1990)23, 228(1990)31, 248(1991)155
- Skoug, J.W. 224(1989)243
- Skov, H.J. 219(1989)105
- Skowronska-Ptasinska, M. 230(1990)59, 230(1990)67, 231(1990)41
- Sletten, E. 223(1989)123
- Sleurink, A. 235(1990)41
- Sloper, A.N. 213(1988)23
- Small, G.W. 246(1991)85, 249(1991)305
- Smeeks, F.C. 233(1990)111
- Smilde, A.K. 212(1988)95, 235(1990)41
- Smirnov, A.V. 227(1989)287
- Smit, H.C. 215(1988)143, 226(1989)53, 226(1989)73, 228(1990)193, 228(1990)209, 235(1990)343, 235(1990)355, 241(1990)83, 241(1990)95
- Smith, A.L. 215(1988)325
- Smith, B.W. 227(1989)331
- Smith, C. 250(1991)71
- Smith, D.L. 204(1988)87
- Smith, F.G. 248(1991)229
- Smith, N.J. 246(1991)351
- Smith, R.D. 241(1990)167
- Smith, R.G. 236(1990)141
- Smith, S. 227(1989)379
- Smolander, K. 217(1989)353, 248(1991)569
- Smyth, M.R. 212(1988)355, 217(1989)335, 224(1989)65, 229(1990)139, 245(1991)139, 249(1991)381
- Sneddon, J. 245(1991)203
- Snook, R.D. 250(1991)95
- Sode, K. 213(1988)69, 218(1989)137, 220(1989)251, 228(1990)49
- Søeberg, H. 238(1990)191
- Sohn, M.-J. 209(1988)345
- Sohrin, Y. 218(1989)25, 224(1989)55, 247(1991)1
- Solich, P. 218(1989)151
- Solinas, V. 226(1989)315
- Song, Y.P. 240(1991)305
- Sonnleitner, B. 213(1988)199
- Sottriffer, A. 240(1990)199
- Soulsbury, K.A. 246(1991)23
- Soupe, J. 208(1988)295
- Souza, I.G. 214(1988)397, 245(1991)211
- Spassov, L. 240(1990)219
- Speiser, B. 243(1991)301
- Spellman, N.T. 243(1991)103
- Spencer, M.J. 244(1991)197, 249(1991)381
- Spencer, R.H. 249(1991)67
- Spinks, T.L. 237(1990)503
- Spiro, M. 242(1991)279
- Spivakov, B.Ya. 230(1990)171
- Spohn, U. 202(1987)75
- Spoors, J.A. 237(1990)99, 245(1991)57
- Sportsman, J.R. 249(1991)185
- Spreinat, A. 249(1991)113
- Sprenger, U. 243(1991)191
- Srivastava, A.K. 249(1991)279
- Stahl, B. 241(1990)175
- Stahovec, W.L. 201(1987)127
- Stalcup, A.M. 234(1990)365
- Stalnaker, N. 215(1988)337
- Stamhuis, E.J. 238(1990)129
- Stamm, W.W. 213(1988)55, 235(1990)329
- Stanley, R. 249(1991)539
- Stará, V. 208(1988)231
- Staškevičienė, S.L. 243(1991)167
- Staszewski, R. 226(1989)213
- Statham, P.J. 244(1991)63, 245(1991)21
- Stauber, J.L. 237(1990)177
- Stavenuiter, J.F.C. 227(1989)11
- Steele, K.L. 246(1991)181
- Steerneman, T. 235(1990)41
- Štefanac, Z. 206(1988)299
- Stefansson, U. 223(1989)461
- Steffen, R.L. 215(1988)203
- Steigstra, H. 209(1988)265
- Steijger, O.M. 217(1989)229
- Steinberg, K.-H. 240(1991)363
- Steiner, L. 246(1991)347
- Štengl, B. 206(1988)299
- Stępak, R. 203(1987)79, 225(1989)97
- Stephany, R.W. 205(1988)243, 223(1989)277
- Stergaršek, A. 220(1989)217
- Stevanato, R. 237(1990)391
- Stevens, A.C. 248(1991)315
- Stewart, B.M. 244(1991)269
- Stewart, J.J. 236(1990)357
- Stewart, K.K. 214(1988)87, 214(1988)97, 214(1988)207
- Stewart, M. 232(1990)3
- Steyaert, H. 204(1988)63
- Stöcklein, W. 234(1990)83, 245(1991)1
- Stockwell, P.B. 214(1988)329
- Stoeppler, M. 226(1989)1, 226(1989)17, 226(1989)31
- Stojić, D.Lj. 209(1988)185
- Stolzberg, R.J. 239(1990)53
- Stone, D.C. 248(1991)143
- Stone, W. 215(1988)337
- Stordal, E.Aa. 219(1989)147
- Storek, W. 209(1988)271
- Storm, G. 217(1989)149

- Stottmeister, U. 213(1988)227  
 Stoyanov, E. 201(1987)207  
 Strachan, D.M. 220(1989)243  
 Stradiotto, N.R. 242(1991)295  
 Strasburg, R.F. 215(1988)311  
 Strasters, J.K. 246(1991)131  
 Street, Jr., K.W. 231(1990)21  
 Strelow, F.W.E. 212(1988)191, 233(1990)129, 248(1991)535  
 Strempel, J. 240(1990)119  
 Strijckmans, K. 220(1989)93, 247(1991)133  
 Stromvall, E.J. 217(1989)249  
 Struijs, J. 207(1988)305  
 Strupat, K. 241(1990)175  
 Stummeyer, J. 233(1990)243  
 Sturaro, A. 224(1989)119, 244(1991)9  
 Sturgeon, R.E. 207(1988)291  
 Sturm, G. 241(1990)261  
 Su, S.Y. 205(1988)279  
 Su, Y.-C. 243(1991)9  
 Su, Z. 245(1991)13  
 Subias, E. 225(1989)69  
 Subrahmanyam, J. 219(1989)177  
 Subramanian, S. 247(1991)133  
 Sudhölter, E.J.R. 230(1990)59, 230(1990)67, 231(1990)41, 245(1991)159, 248(1991)307  
 Suenaga, T. 235(1990)279  
 Suëtaka, W. 240(1991)371  
 Sugama, A. 233(1990)275  
 Sugier, H. 237(1990)399, 239(1990)269  
 Sugihara, H. 221(1989)117  
 Sugiyama, T. 236(1990)479  
 Sulaiman, S.T. 206(1988)379  
 Suleiman, A.A. 217(1989)187, 245(1991)63  
 Sultan, S.M. 233(1990)307, 239(1990)161  
 Sumpter, B.G. 235(1990)143  
 Sun, G. 242(1991)233, 242(1991)241  
 Sun, H.-J. 224(1989)139  
 Sun, L. 214(1988)41, 245(1991)7  
 Sun, X.-P. 238(1990)183  
 Sun, Z. 228(1990)241  
 Sundaresan, M. 219(1989)313  
 Sundberg, D.C. 217(1989)217  
 Sunderman Jr, F.W. 204(1988)63  
 Sundqvist, B.U.R. 247(1991)265  
 Sung, J.-Y. 246(1991)275  
 Suprynowicz, Z. 208(1988)263  
 Susuta, Y. 220(1989)155  
 Sutherland, W.S. 237(1990)439  
 Sutter, J.M. 237(1990)223  
 Suzuki, H. 213(1988)69, 229(1990)197, 233(1990)275  
 Suzuki, K. 237(1990)155  
 Suzuki, M. 215(1988)91, 217(1989)321, 242(1991)209, 244(1991)201, 249(1991)323  
 Suzuki, N. 219(1989)97, 228(1990)85, 239(1990)115, 232(1990)385  
 Suzuki, T. 226(1989)109, 245(1991)43  
 Svehla, G. 204(1988)223  
 Svensson, R. 213(1988)207  
 Švorc, J. 247(1991)83  
 Sweerts, J.-P.R.A. 219(1989)351  
 Sweeting, F.W. 214(1988)401, 238(1990)177  
 Sweileh, J.A. 214(1988)107, 220(1989)65  
 Swindlehurst, C.A. 205(1988)195  
 Synovec, R.E. 237(1990)299, 246(1991)241  
 Syropoulos, A.B. 239(1990)195  
 Szekelhidi, L. 227(1989)309  
 Szpunar-Łobińska, J. 230(1990)125  
 Szymanowski, J. 206(1988)215  
 Szymański, A. 231(1990)77  
 Szymczak, R. 236(1990)357  
 Tabet, J.C. 241(1990)265  
 Tachibana, M. 215(1988)347, 236(1990)505  
 Tachiiri, Y. 223(1989)299  
 Tachiyashiki, S. 204(1988)169  
 Taga, K. 240(1990)125  
 Taga, M. 244(1991)281  
 Tagami, H. 239(1990)307  
 Tagashira, S. 244(1991)239  
 Taguchi, H. 228(1990)159, 236(1990)441, 239(1990)13  
 Taguchi, S. 219(1989)239  
 Taha, Z. 215(1988)29  
 Tahán, J.E. 236(1990)449  
 Tahara, R. 212(1988)267  
 Tairo, M. 207(1988)269  
 Takada, T. 235(1990)413  
 Takagi, M. 204(1988)113  
 Takahashi, A. 226(1989)109  
 Takahashi, H. 244(1991)161  
 Takahashi, K. 207(1988)361, 220(1989)13  
 Takahashi, T. 214(1988)97  
 Takahashi, Y. 215(1988)155, 217(1989)61, 219(1989)213, 225(1989)89, 239(1990)73  
 Takao, T. 223(1989)361, 239(1990)301  
 Takatsuto, S. 222(1989)201, 228(1990)101  
 Takeda, T. 225(1989)273  
 Takeda, Y. 209(1988)45, 212(1988)81, 222(1989)301  
 Takeishi, H. 218(1989)77  
 Takekawa, Y. 217(1989)281  
 Takemori, Y. 215(1988)267  
 Takenaka, M. 242(1991)131  
 Takeshima, S. 239(1990)181  
 Takeuchi, K. 230(1990)183  
 Takeuchi, T. 235(1990)399, 242(1991)291, 243(1991)247  
 Takezawa, M. 225(1989)351  
 Takitani, S. 201(1987)77, 225(1989)351, 234(1990)359  
 Talarico, D. 235(1990)215  
 Tallant, D.R. 240(1990)35  
 Talsky, G. 226(1989)293  
 Tamás, J. 241(1990)289  
 Tamata, M. 208(1988)287  
 Tamer, A. 231(1990)129  
 Tamiya, E. 207(1988)77, 213(1988)69, 215(1988)91, 215(1988)301, 217(1989)321, 218(1989)61, 218(1989)137, 220(1989)251, 225(1989)399, 229(1990)197, 232(1990)267, 244(1991)201, 244(1991)207, 249(1991)323  
 Tamura, H. 244(1991)275, 248(1991)619  
 Tan, C.B. 221(1989)205  
 Tan, C.-H. 229(1990)83, 234(1990)321  
 Tan, H.S.I. 226(1989)159  
 Tan, S.N. 208(1988)195, 237(1990)345  
 Tan, S.S. 208(1988)283, 221(1989)139  
 Tan, Y.L. 221(1989)53  
 Tanabe, K. 201(1987)317



- Tanaka, A. 214(1988)259  
 Tanaka, F. 243(1991)273  
 Tanaka, M. 207(1988)361, 231(1990)107  
 Tanaka, S. 230(1990)175, 230(1990)179, 236(1990)459, 244(1991)281  
 Tang, H.T. 214(1988)187  
 Tang, K.T. 218(1989)157  
 Tang, L.X. 232(1990)357  
 Tang, T.-C. 238(1990)431  
 Tang, X. 234(1990)403, 234(1990)493  
 Taniguchi, M. 219(1989)239  
 Taniguchi, S. 220(1989)13  
 Tanimura, T. 242(1991)291  
 Tanner, D.B. 240(1991)273  
 Tapparo, A. 238(1990)279  
 Tarascon, J.-M. 240(1991)273  
 Tarazona, J.V. 234(1990)193  
 Tarutani, T. 209(1988)333  
 Taştekin, M. 234(1990)339  
 Tatsuma, T. 242(1991)85  
 Tauler, P. 223(1989)257  
 Tauler, R. 206(1988)189, 248(1991)447  
 Tawara, E. 230(1990)41  
 Tay, B.T. 221(1989)205  
 Tayal, H.D. 235(1990)435  
 Taylor, C.G. 234(1990)439  
 Taylor, P.W. 240(1990)159  
 Taylor, R.F. 213(1988)131, 249(1991)67  
 Tejima, I. 228(1990)101  
 Temizer, A. 229(1990)145  
 Temmerman, E. 236(1990)371  
 Tenhosaari, A. 248(1991)71  
 Teo, P.Y.T. 221(1989)205  
 Tepas, B.C.A. 217(1989)149  
 Terabe, S. 236(1990)281  
 Tercier, M.-L. 237(1990)429, 249(1991)419  
 Terkovics, A.L. 235(1990)93  
 Terner Rodriguez, M. 244(1991)89  
 Terry, S. 241(1990)115  
 Tesar, R. 240(1990)167  
 Testa, C. 220(1989)103  
 Texter, J. 215(1988)187, 248(1991)603  
 Thai, A.C. 221(1989)205  
 Thavarungkul, P. 249(1991)17  
 Theiss, W. 240(1990)173, 240(1990)229  
 Themelis, D.G. 224(1989)383, 225(1989)437  
 Thénot, J.P. 241(1990)209  
 Theobald, N. 204(1988)135  
 Therasse, J. 249(1991)367  
 Theriault, G.A. 239(1990)45  
 Thibado, P. 239(1990)45  
 Thielemans, A. 225(1989)69  
 Thimme Gowda, A. 209(1988)293  
 Thomas, B.D. 249(1991)101  
 Thomas, C.L.P. 217(1989)289, 226(1989)145  
 Thomas, D. 222(1989)235  
 Thomas, J.D.R. 222(1989)211  
 Thommen, C. 207(1988)225, 234(1990)141  
 Thompson, M. 206(1988)203, 217(1989)111, 225(1989)369, 248(1991)143  
 Thomsen, K.N. 219(1989)105  
 Thorlacius, A. 243(1991)227  
 Thorneman, T. 224(1989)13  
 Thorpe, G. 249(1991)263  
 Thunus, L. 235(1990)393  
 Tian, L.-C. 238(1990)183  
 Tiella, G. 207(1988)211  
 Tielrooy, J.A. 207(1988)149  
 Tien, H.T. 201(1987)51  
 Tiers, G.V.D. 237(1990)241  
 Tikhomirova, T.I. 219(1989)201  
 Timotheou-Potamia, M. 206(1988)375, 218(1989)37, 227(1989)405  
 Timpe, H.-J. 243(1991)179  
 Tine, A. 227(1989)181  
 Tip, L. 241(1990)219  
 Tittarelli, P. 201(1987)59  
 Tiwari, S.K. 242(1991)225  
 Tjaden, U.R. 205(1988)15  
 To, T.C. 213(1988)165  
 Tod, M. 217(1989)11, 223(1989)309  
 Todoriki, S. 230(1990)75  
 Tôei, K. 208(1988)317  
 Tofuku, Y. 208(1988)287, 208(1988)291, 209(1988)351  
 Tohda, K. 237(1990)155  
 Tölg, G. 231(1990)265  
 Tomás, V. 209(1988)79, 244(1991)99  
 Tomassetti, M. 221(1989)157  
 Tomellini, S.A. 210(1988)51, 217(1989)203, 227(1989)343, 227(1989)359  
 Tonelli, D. 235(1990)465  
 Tong, A. 230(1990)175, 230(1990)179  
 Toole, J. 245(1991)83  
 Torres, H. 239(1990)229  
 Torres, L. 237(1990)1  
 Torres, L.M.B. 236(1990)501  
 Torres Llosa, J.M. 211(1988)317  
 Tosi, G. 240(1991)347  
 Tóth, K. 216(1989)163, 234(1990)49, 234(1990)57  
 Tou, J.C. 229(1990)9  
 Town, R.M. 248(1991)95  
 Townsend, R. 227(1989)165  
 Townshend, A. 201(1987)339, 202(1987)247, 205(1988)261, 207(1988)355, 209(1988)275, 214(1988)161, 218(1989)1, 221(1989)337, 225(1989)331, 227(1989)65, 230(1990)151, 236(1990)267, 238(1990)171, 245(1991)115, 248(1991)219  
 Toyo'oka, T. 205(1988)7, 205(1988)29, 223(1989)299, 226(1989)109  
 Traldi, P. 224(1989)119, 232(1990)253  
 Tran, C.D. 235(1990)445  
 Tran-Minh, C. 249(1991)405  
 Tratch, S.S. 235(1990)115  
 Trautman, T.R. 246(1991)211  
 Trebilcock, M.A. 249(1991)247  
 Trettnak, W. 221(1989)195  
 Tretyakov, M.Yu. 240(1990)167  
 Tripiet, D. 249(1991)271  
 Trojánek, A. 203(1987)1, 247(1991)73  
 Trojanowicz, M. 207(1988)59, 207(1988)325, 222(1989)95, 222(1989)109, 228(1990)287, 230(1990)125  
 Trotta, P.P. 241(1990)315  
 Tsacopoulos, M. 249(1991)419  
 Tsao, R. 241(1990)315  
 Tsbopoulos, A. 241(1990)315

- Tsubota, H. 246(1991)413  
 Tsuchiya, H. 218(1989)119  
 Tsuchiya, M. 246(1991)405  
 Tsukamoto, Y. 223(1989)299, 225(1989)421, 227(1989)21  
 Tsumura, S.-i. 246(1991)413  
 Tsunoda, K.-I. 229(1990)3  
 Tsunoda, T. 242(1991)209  
 Tsurubou, S. 215(1988)119, 244(1991)289, 248(1991)501  
 Tuba, Z. 241(1990)289  
 Tüdös, A.J. 228(1990)39  
 Tungkananuruk, N. 204(1988)359, 219(1989)323  
 Tuñón Blanco, P. 233(1990)281  
 Tuon, R.L. 234(1990)207  
 Turchetto, L. 235(1990)465  
 Turcotte, J. 246(1991)365  
 Turner, A.P.F. 213(1988)113, 215(1988)61, 234(1990)459, 245(1991)133, 249(1991)1  
 Turner, D.R. 226(1989)229, 226(1989)239, 232(1990)149  
 Turrell, J.A. 235(1990)287  
 Tuzhi, P. 201(1987)43  
 Tyagi, V. 231(1990)69  
 Tymochowicz, S. 220(1989)243  
 Tyson, J.F. 214(1988)57, 214(1988)329, 214(1988)339, 214(1988)447, 234(1989)3  
  
 Uchida, K. 208(1988)351  
 Uchida, Y. 220(1989)269, 222(1989)127  
 Uchiyama, M. 201(1987)185, 202(1987)187  
 Uchiyama, S. 205(1988)29, 208(1988)287, 208(1988)291, 209(1988)351, 225(1989)425, 230(1990)195  
 Udisti, R. 202(1987)151  
 Udseth, H.R. 241(1990)167  
 Ueda, E. 205(1988)7  
 Ueda, T. 208(1988)351, 227(1989)421  
 Ugi, I. 210(1988)123, 235(1990)155  
 Ugo, P. 208(1988)207, 211(1988)325, 219(1989)9, 219(1989)19, 238(1990)357, 244(1991)29  
 Uhegbu, C.E. 237(1990)413  
 Uhlemann, E. 224(1989)47, 245(1991)243  
 Ulrix, W. 205(1988)215  
 Umegae, Y. 208(1988)59, 217(1989)263  
 Umesato, F. 230(1990)195  
 Umetani, S. 220(1989)111, 221(1989)179, 226(1989)187, 232(1990)293, 239(1990)277, 249(1991)525  
 Upstill-Goddard, R.C. 249(1991)555  
 Urakami, K. 239(1990)181  
 Uray, G. 246(1991)251  
 Urbańska, J. 207(1988)85, 231(1990)143, 248(1991)409  
 Ureña Pozo, E. 217(1989)363  
 Ureña Pozo, M.E. 224(1989)153  
 Usai, M. 248(1991)301  
 Usami, S. 230(1990)17  
 Uunk, L.G.M. 250(1991)1  
 Uzu, S. 223(1989)299, 225(1989)421  
  
 Vadgama, P. 232(1990)357  
 Vairavamurthy, A. 236(1990)363, 237(1990)215  
 Vajgand, V.J. 202(1987)231, 212(1988)73, 229(1990)221, 229(1990)287  
 Vajta, S. 241(1990)209  
 Valcárcel, M. 202(1987)199, 211(1988)281, 211(1988)287, 214(1988)217, 214(1988)375, 215(1988)233, 215(1988)241, 216(1989)275, 219(1989)191, 219(1989)231, 224(1989)127, 224(1989)169, 225(1989)431, 225(1989)443, 226(1989)221, 229(1990)107, 229(1990)177, 230(1990)137, 230(1990)199, 234(1989)89, 234(1990)227, 234(1990)345, 234(1990)433, 235(1990)441, 238(1990)411, 239(1990)211, 242(1991)179, 242(1991)283, 249(1991)461, 250(1991)157  
 Valdes, E.M. 246(1991)267, 248(1991)173  
 Valentová, O. 218(1989)151  
 Valeur, B. 227(1989)129  
 Valković, V. 220(1989)217  
 Valleton, J.-M. 231(1990)305  
 Vallon, J.J. 245(1991)129  
 Vanballenberghe, L. 204(1988)63  
 Van Bennekom, W.P. 202(1987)35, 204(1988)29, 239(1990)171, 241(1990)23, 248(1991)473, 248(1991)483  
 Van Berkel, W.W. 235(1990)427  
 Van Beysterveldt, L. 222(1989)1  
 Van Blitterswijk, H. 237(1990)61  
 Van Borm, W.A. 218(1989)185  
 Van Cauwenberghe, K.A. 247(1991)229  
 Van Cleuvenbergen, R. 228(1990)77  
 Vandecasteele, C. 211(1988)91, 220(1989)93, 220(1989)257, 226(1989)193, 236(1990)371, 242(1991)203, 244(1991)115, 244(1991)259  
 Vandeginste, B.G.M. 222(1989)1, 222(1989)19, 223(1989)183, 223(1989)205, 228(1990)145, 235(1990)27, 241(1990)23  
 Vandekerckhove, D. 205(1988)215, 227(1989)119  
 Van Delft, W. 209(1988)147  
 Van den Beld, C.M.B. 205(1988)15  
 Van den Berg, A. 230(1990)59, 230(1990)67, 231(1990)41, 231(1990)221, 232(1990)149, 245(1991)167, 250(1991)265  
 Vandenberg, E.T. 202(1987)215  
 Van den Berg, R.H. 205(1988)175, 205(1988)243, 205(1988)249, 205(1988)267, 227(1989)49, 227(1989)57, 227(1989)109  
 Van den Broek, H.H. 207(1988)305  
 Van den Eeckhout, E. 227(1989)303  
 Van de Nesse, R.J. 227(1989)173  
 Vandenhaute, J. 204(1988)63  
 Van Den Heuvel, E.J. 235(1990)343, 235(1990)355  
 Van den Heuvel, H. 242(1991)275  
 Van den Heuvel, J.C. 213(1988)259  
 Van Den Hoop, M.A.G.T. 232(1990)141  
 Van Der Graaf, P.H. 235(1990)41  
 Van der Greef, J. 205(1988)15  
 Van Der Heeft, E. 237(1990)61  
 Van der Linden, W.E. 201(1987)117, 211(1988)61, 211(1988)99, 214(1988)77, 216(1989)307, 222(1989)151, 223(1989)387, 226(1989)171, 229(1990)71, 231(1990)59, 233(1990)31, 233(1990)251, 234(1990)285, 237(1990)71, 239(1990)245, 247(1991)51, 248(1991)429  
 Van der Maas, J.H. 223(1989)135, 240(1991)311  
 Van der Meer, J.M. 213(1988)177  
 Van der Schoot, B.H. 229(1990)71, 233(1990)49, 237(1990)71  
 Van der Slik, W. 220(1989)119  
 Van der Velden-de Groot, T.A.M. 249(1991)257  
 Van der Voet, H. 209(1988)1, 220(1989)119  
 Van der Wal, P.D. 230(1990)59, 230(1990)67, 231(1990)41, 245(1991)159  
 Van der Weken, G. 205(1988)43  
 Van Ede, C.J. 238(1990)129  
 Van Elteren, J.T. 222(1989)159  
 Van Espen, P. 216(1989)25, 226(1989)43



- Van Gent, J. 213(1988)35  
 Van Ginkel, L.A. 225(1989)137, 237(1990)61  
 Van Grieken, R. 204(1988)179  
 Van Groen, B. 242(1991)275  
 Vanhaecke, F. 244(1991)115  
 Vanhoe, H. 211(1988)91, 244(1991)115, 244(1991)259  
 Vaníčková, M. 208(1988)219  
 Van Leeuwen, H.P. 229(1990)93, 232(1990)141, 232(1990)209  
 Van Leeuwen, J.A. 223(1989)183, 228(1990)145, 235(1990)27  
 Van Look, L.J. 205(1988)223, 248(1991)207  
 Van Malssen, K.F. 235(1990)343, 235(1990)355  
 Van Marion, P. 223(1989)387  
 Van Mastbergen, H.M. 217(1989)229  
 Van Molle, S. 250(1991)1  
 Van Niekerk, P.J. 223(1989)237  
 Van Nugteren-Osinga, I.C. 214(1988)77, 222(1989)151, 226(1989)171, 239(1990)245  
 Van Oort, W.J. 233(1990)251  
 Van Oosterom, A.T. 247(1991)229  
 Van Opstal, M.A.J. 202(1987)35, 204(1988)29, 233(1990)65, 241(1990)23  
 VanOrden, S.L. 246(1990)199  
 Van Peteghem, C.H. 205(1988)223, 248(1991)207  
 Van Renterghem, D. 211(1988)231  
 Van Riemsdijk, W.H. 232(1990)189  
 Van Ringen, G.J. 205(1988)15  
 Van Rossum, H.J. 237(1990)61  
 Vanslyke, S.J. 246(1991)43  
 Van Staden, J.F. 218(1989)69, 219(1989)55  
 Vantrappen, G. 247(1991)223, 247(1991)243  
 Van Trieste, P.F. 215(1988)325  
 Van Veen, J.J.F. 204(1988)29  
 Van Vliet, H.R. 218(1989)69  
 Van Weerd, T. 233(1990)155  
 Vanýsek, P. 228(1990)241  
 Vardy, P. 249(1991)227  
 Varga, J. 240(1990)223  
 Varma, S.R. 233(1990)235  
 Vartiainen, T. 212(1988)297  
 Vasić, V.M. 209(1988)185  
 Vastano, S.E. 201(1987)127  
 Vaughan, G.M. 231(1990)299  
 Vaughan, P.A. 248(1991)361  
 Vazquez, M.L. 227(1989)319  
 Vazquez-Gonzalez, J.F. 219(1989)79  
 Vecchiatti, R. 204(1988)189  
 Vekshin, N.L. 227(1989)267, 227(1989)291  
 Velasco, A. 229(1990)107  
 Velinsky, D.J. 235(1990)419  
 Velthorst, N.H. 227(1989)173, 232(1990)245  
 Veltkamp, A.C. 233(1990)181  
 Venanzi, C.A. 210(1988)151, 210(1988)213  
 Venanzi, T.J. 210(1988)213  
 Venkateswarlu, K.S. 212(1988)335  
 Verboom, W. 233(1990)251, 234(1990)285  
 Verma, K.K. 214(1988)207  
 Vermeir, G. 220(1989)257, 236(1990)371, 242(1991)203  
 Versieck, J. 204(1988)63, 244(1991)259  
 Versluis, C. 241(1990)219, 248(1991)553  
 Vertogen, G. 233(1990)155  
 Vetere, V.F. 234(1990)331  
 Veuthey, J.-L. 225(1989)303, 231(1990)115  
 Vial, M. 233(1990)207  
 Vibhute, R.G. 222(1989)215  
 Vicente, F. 243(1991)115  
 Vicente-Beckett, V.A. 224(1989)97, 232(1990)31  
 Vickers, G.H. 216(1989)1  
 Victor, A.H. 215(1988)111, 215(1988)317, 248(1991)535  
 Victoria, L. 229(1990)153  
 Vilholm, K. 249(1991)77  
 Villadsen, J. 214(1988)137, 237(1990)165, 247(1991)45, 249(1991)123  
 Villarta, R.L. 245(1991)63  
 Vin, Y.Y. 221(1989)183  
 Visalakshi, G. 212(1988)335  
 Visser, T. 240(1990)205  
 Vithanage, R.S. 215(1988)277  
 Vivier, H. 238(1990)243  
 Vizi-Orosz, A. 240(1990)211  
 Vlasenko, S.B. 237(1990)285  
 Vlassopoulos, D. 229(1990)227  
 Vleeschhouwer, P.H.M. 207(1988)149  
 Vo-Dinh, T. 206(1988)333, 217(1989)171, 229(1990)169, 229(1990)295, 236(1990)237  
 Vogt, N.B. 222(1989)135  
 Voigtman, E. 246(1991)9, 248(1991)195  
 Vojnović, D. 201(1987)253, 248(1991)51  
 Vojvodić, V. 232(1990)131  
 Volesky, B. 249(1991)279  
 Volke, J. 209(1988)69  
 Von Wandruszka, R. 226(1989)337  
 Vorobeve, G.A. 230(1990)171  
 Vos, G. 209(1988)147  
 Vrbová, E. 239(1990)263  
 Vredenburg, M.J. 240(1990)205  
 Vuysters, F.A.M. 211(1988)43  
 Vytřas, K. 209(1988)357, 226(1989)177  
 Wada, H. 211(1988)213, 212(1988)253, 214(1988)439, 220(1989)293, 223(1989)339  
 Wada, M. 231(1990)107  
 Wade, A.P. 215(1988)169, 237(1990)361, 246(1991)23  
 Waissner, K. 212(1988)279  
 Waite, T.D. 236(1990)357  
 Waki, H. 225(1989)313  
 Wakida, S.-I. 224(1989)145  
 Walker, R.J. 222(1989)291  
 Walker, T.A.B. 232(1990)3  
 Wallace, G.G. 217(1989)335, 235(1990)451, 237(1989)149, 238(1990)345, 244(1991)197, 249(1991)381  
 Wallace, L.J. 249(1991)195  
 Wallach, J.M. 211(1988)205, 213(1988)267, 247(1991)79  
 Wallaey, B. 204(1988)63  
 Walmsley, A.D. 242(1991)31  
 Walmsley, A.J. 250(1991)257  
 Walsh, M.E. 231(1990)313  
 Walter, F.L. 208(1988)195, 237(1990)345  
 Walters, S.M. 236(1990)77, 245(1991)259  
 Waltman, D.P. 231(1990)21  
 Walton, J.R. 240(1991)339  
 Walton, T.J. 247(1991)161, 247(1991)177, 247(1991)187  
 Walzer, L.R. 205(1988)183  
 Wang, C.-Y. 221(1989)341  
 Wang, E. 230(1990)207, 239(1990)29, 249(1991)489

- Wang, F. 233(1990)299  
Wang, G. 229(1990)213, 230(1990)105, 241(1990)137, 244(1991)39  
Wang, J. 201(1987)43, 207(1988)95, 215(1988)29, 217(1989)343, 218(1989)281, 221(1989)43, 226(1989)323, 228(1990)251, 229(1990)139, 234(1989)41, 234(1990)315, 236(1990)411, 242(1991)259, 245(1991)77, 245(1991)139  
Wang, K. 244(1991)151  
Wang, M.-S. 237(1990)311  
Wang, P. 210(1988)181  
Wang, Q. 248(1991)257  
Wang, S. 238(1990)375  
Wang, X. 231(1990)295, 243(1991)65  
Wang, Y. 212(1988)341, 221(1989)353, 235(1990)273  
Wang, Y.-W. 221(1989)345  
Wang, Z. 212(1988)145, 238(1990)399, 244(1991)135  
Wang, Z.-D. 232(1990)43, 232(1990)181  
Wange, E. 236(1990)293  
Wanke, R. 235(1990)65  
Ward, D.B. 229(1990)157  
Ward, J.M. 249(1991)195  
Warner, I.M. 207(1988)251, 224(1989)235, 232(1990)239  
Wasa, T. 207(1988)319, 209(1988)259, 218(1989)129, 231(1990)121, 236(1990)437, 238(1990)339, 248(1991)345  
Watanabe, K. 207(1988)331, 218(1989)111, 237(1990)155  
Watanabe, T. 228(1990)61, 242(1991)85  
Waters, D. 215(1988)337  
Watson, A.J. 249(1991)555  
Wattanakanjana, Y. 246(1991)325  
Wauters, G. 226(1989)193  
Weaver, M.J. 204(1988)95, 212(1988)201  
Weber, G. 231(1990)265, 232(1990)377  
Weber, H.T. 247(1991)97  
Wechter, C. 234(1990)275  
Wedepohl, K. 203(1987)23  
Weginwar, R.G. 234(1990)445  
Wegscheider, W. 248(1991)459  
Wehnert, G. 213(1988)47  
Weigel, Ch. 240(1990)125  
Weil, D.A. 241(1990)187  
Weinberg, P.D. 227(1989)235, 227(1989)243  
Weiser, W.E. 224(1989)243  
Weissbrodt, E. 213(1988)227  
Weisz, H. 202(1987)1, 202(1987)25  
Welch, L.E. 204(1988)323  
Wells, M.J.M. 236(1990)131  
Welti, D.H. 206(1988)173  
Wen, X. 249(1991)77, 249(1991)451  
Weng, J.-L. 233(1990)59  
Wentzell, P.D. 224(1989)263, 237(1990)361, 246(1991)43  
Werner, G. 219(1989)281, 228(1990)55, 236(1990)315  
Wershaw, R.L. 232(1990)31  
Wesemann, W. 241(1990)261  
Weskamp, R. 207(1988)171  
West, T.S. 207(1988)67  
Westerlund, S. 221(1989)77  
Wetters, J.H. 236(1990)173  
Wever, G. 213(1988)177  
Whalley, P.D. 223(1989)441  
Whang, C.M. 240(1990)19  
Wheeler, S.K. 237(1990)141  
Whiteside, I.R.C. 204(1988)343, 212(1988)155  
Whitfield, M. 226(1989)229, 226(1989)239  
Whitman, D.A. 214(1988)197  
Whung, P.-Y. 211(1988)257  
Wichardt, C. 236(1990)399  
Wickström, T. 208(1988)347, 211(1988)223, 219(1989)141  
Widmer, H.M. 234(1990)141, 234(1990)259  
Wiechelman, K.J. 221(1989)223  
Wiederin, D.R. 248(1991)229, 250(1991)61  
Wieme, R.J. 205(1988)239  
Wienke, D. 223(1989)247, 243(1991)311  
Wiese, G. 239(1990)171, 248(1991)473, 248(1991)483  
Wiese, M. 235(1990)195  
Wiewiórowski, M. 240(1991)277  
Wigfield, D.C. 248(1991)575  
Wigfield, Y. 233(1990)311  
Wijesuriya, D. 225(1989)105, 234(1990)453, 236(1990)445, 243(1991)1  
Wikmark, G. 223(1989)429  
Wilcox, K. 245(1991)235  
Wilgocki, M. 226(1989)351  
Wilhartitz, P. 233(1990)243  
Wilk, H.R. 225(1989)37  
Willason, S.W. 201(1987)83  
Willatt, A.J. 240(1990)81  
Willems, H. 213(1988)245  
Willett, P. 235(1990)77  
Williams, H.L. 228(1990)155  
Williams, K.L. 222(1989)169, 236(1990)357  
Williams, K.P.J. 240(1991)339  
Williams, M.H. 223(1989)175  
Williams, R.R. 242(1991)17, 248(1991)285  
Williams, T. 217(1989)157, 237(1990)291  
Willibey, B. 249(1991)209  
Willie, S.N. 207(1988)291  
Willis, W.S. 235(1990)307  
Wills, M.R. 224(1989)83  
Wilshere, J.M. 229(1990)57  
Wilson, D.A. 215(1988)99  
Wilson, G.A. 235(1990)77  
Wilson, G.S. 241(1990)105  
Wilson, I.D. 236(1990)145  
Wilson, R. 248(1991)127  
Wilson, S.M. 217(1989)165  
Wilson, T. 235(1990)77  
Wimalasena, R.L. 241(1990)105  
Winans, R.E. 233(1990)149  
Winefordner, J.D. 201(1987)317, 204(1988)247, 208(1988)1, 208(1988)21, 225(1989)415, 227(1989)331, 231(1990)289, 236(1990)257, 237(1990)273, 237(1990)439, 244(1991)215  
Winkler, H. 240(1991)363  
Winnawisser, G. 240(1991)263  
Winqvist, F. 231(1990)93  
Wischnewsky, G.G. 243(1991)221  
Wojciechowski, M. 237(1990)127, 249(1991)433  
Woldemariam, T.Z. 234(1989)89  
Wolfbeis, O.S. 205(1988)1, 208(1988)53, 212(1988)261, 217(1989)1, 221(1989)195, 230(1990)213, 246(1991)251, 248(1991)351, 250(1991)181  
Wolters, R. 207(1988)111, 233(1990)65  
Wong, J.L. 235(1990)457, 246(1991)301  
Wong, M.K. 218(1989)345  
Wong, P.T.T. 240(1990)151

- Wood, D.W. 224(1989)383, 225(1989)437  
 Wood, J. 249(1991)555  
 Wood, S.A. 229(1990)227  
 Woodward, J.R. 213(1988)61  
 Wooley, M. 208(1988)343  
 Worsfold, P.J. 201(1987)345, 204(1988)343, 212(1988)155, 214  
 (1988)401, 227(1989)379, 236(1990)287, 238(1990)171, 238  
 (1990)177, 239(1990)189, 246(1991)447, 250(1991)145  
 Wring, S.A. 229(1990)63, 231(1990)203  
 Wrona, P.K. 237(1990)421  
 Wu, C. 212(1988)325  
 Wu, K.-L. 224(1989)139  
 Wu, L.-H. 228(1990)251  
 Wu, N. 238(1990)399  
 Wu, R. 210(1988)199, 245(1991)283  
 Wu, T.-G. 235(1990)457, 246(1991)301  
 Wu, X. 214(1988)279, 249(1991)87  
 Wu, Z. 231(1990)101  
 Wunderlich, B. 235(1990)143  
 Wunsch, G. 233(1990)243, 239(1990)283  
 Würfels, M. 226(1989)1, 226(1989)17, 226(1989)31  
 Wyrley-Birch, J. 218(1989)323  
 Wythoff, B.J. 217(1989)203, 227(1989)343, 227(1989)359
- Xia, Y.-H. 222(1989)263  
 Xiaoheng, T. 210(1988)189  
 Xiaomin, W. 210(1988)169  
 Xidis, A.L. 239(1990)7  
 Xie, X. 208(1988)337  
 Xie, Y.-L. 222(1989)347  
 Xilei, L. 211(1988)231  
 King, M.L. 246(1991)347  
 Xiyun, L. 210(1988)169  
 Xu, J. 248(1991)257  
 Xu, L. 210(1988)163, 242(1991)11  
 Xu, M. 235(1990)445  
 Xu, S. 214(1988)41, 245(1991)7  
 Xu, Y. 225(1989)227, 229(1990)213  
 Xu, Y.-Y. 238(1990)183  
 Xu, Z. 210(1988)181  
 Xue, Z.-L. 237(1990)317, 248(1991)163  
 Xun, Y.-M. 234(1990)487
- Yabuki, S. 245(1991)145  
 Yagüe, E. 209(1988)79  
 Yakovlev, V.A. 240(1990)219, 240(1990)235  
 Yamada, J. 229(1990)3  
 Yamada, K. 239(1990)297  
 Yamada, K.M.T. 240(1991)263  
 Yamada, M. 217(1989)371, 231(1990)7, 232(1990)385, 247  
 (1991)27  
 Yamada, T. 243(1991)273  
 Yamaguchi, M. 215(1988)259, 215(1988)267, 221(1989)163,  
 223(1989)319, 231(1990)1, 242(1991)113  
 Yamamoto, G. 222(1989)121  
 Yamamoto, H. 236(1990)437  
 Yamamoto, K. 246(1991)333  
 Yamamoto, M. 221(1989)249, 232(1990)389, 239(1990)139,  
 239(1990)297  
 Yamamoto, T. 244(1991)59  
 Yamamoto, Y. 247(1991)13  
 Yamamura, K. 202(1987)237
- Yamane, T. 207(1988)331  
 Yamaoka, K. 219(1989)123  
 Yamasaki, S. 214(1988)349  
 Yamashoji, Y. 231(1990)107  
 Yamato, S. 232(1990)281  
 Yamazaki, S. 242(1991)291  
 Yan, B. 236(1990)287, 246(1991)447, 250(1991)145  
 Yan, Y. 248(1991)103  
 Yan, Z. 234(1990)493  
 Yanagihara, T. 248(1991)329  
 Yáñez-Sedeño, P. 234(1990)309  
 Yang, C.-C. 229(1990)115, 232(1990)345  
 Yang, J. 231(1990)157, 235(1990)323, 238(1990)307  
 Yang, J.-N. 246(1991)341  
 Yang, P. 243(1991)65  
 Yang, S.-P. 221(1989)341  
 Yang, S.S. 225(1989)409  
 Yang, T. 248(1991)517  
 Yang, T.C. 215(1988)353  
 Yang, W. 234(1990)107  
 Yang, Z. 201(1987)135  
 Yano, I. 247(1991)283  
 Yao, S.-Z. 209(1988)213, 212(1988)61, 215(1988)79, 229(1990)  
 205, 230(1990)51, 246(1991)421, 246(1991)425  
 Yao, T. 207(1988)319, 209(1988)259, 218(1989)129, 231(1990)  
 121, 236(1990)437, 238(1990)339, 248(1991)345  
 Yao, Z.-H. 246(1991)341  
 Yaqoob, M. 248(1991)219  
 Yarnitzky, Ch. 228(1990)117, 234(1990)161, 234(1990)475, 248  
 (1991)289  
 Yarwood, J. 240(1990)29, 240(1990)81, 240(1991)305  
 Yasaka, T. 247(1991)201  
 Yasuda, K. 220(1989)13  
 Yasumasa, Y. 214(1988)229  
 Yates III, J.R. 225(1989)1  
 Ye, J. 244(1991)165  
 Yebra-Biurrun, M.C. 239(1990)321  
 Yenser, B.A. 243(1991)43  
 Yeran, T.D. 204(1988)7  
 Yian, Z. 217(1989)271  
 Yim, H.S. 237(1990)115  
 Yokoi, K. 245(1991)167  
 Yokoyama, K. 213(1988)69, 218(1989)137  
 Yokoyama, Y. 246(1991)405  
 Yonehara, N. 206(1988)273  
 Yonekura, S. 207(1988)243  
 Yoshida, F. 217(1989)61  
 Yoshida, H. 214(1988)97  
 Yoshida, S. 225(1989)273, 239(1990)181, 242(1991)131  
 Yoshimura, K. 209(1988)333, 225(1989)313  
 Yoshino, K. 224(1989)383  
 Yoshioka, S. 209(1988)45, 212(1988)81  
 Yoshitake, K. 222(1989)121  
 Yoshitake, T. 215(1988)267, 242(1991)113  
 Yoshizuka, T. 233(1990)139  
 Yotsuyanagi, T. 233(1990)121  
 Youla, M. 249(1991)495  
 Youxian, Y. 212(1988)291  
 Ystenes, M. 240(1990)61  
 Yu, F.-B. 234(1990)487  
 Yu, R. 248(1991)257  
 Yu, R.-Q. 222(1989)347, 222(1989)369

- Yu, T. 201(1987)317  
 Yuan, D. 243(1991)65  
 Yuan, S. 235(1990)239  
 Yuan, S.-G. 221(1989)345, 221(1989)353  
 Yuferova, I.B. 219(1989)201  
 Yuzhu, H. 223(1989)1
- Zagatto, E.A.G. 204(1988)259, 206(1988)253, 214(1988)239,  
 214(1988)247, 226(1989)129, 234(1990)153  
 Zagrobelny, J. 246(1991)55  
 Zaidi, K.F. 227(1989)273  
 Zaitchev, S.V. 227(1989)287  
 Zaitsu, K. 201(1987)351  
 Zambonin, P.G. 207(1988)183  
 Zamel, S. 248(1991)583  
 Zamponi, S. 219(1989)153  
 Zapardiel, A. 244(1991)49  
 Zazulak, W. 241(1990)127  
 Zefirov, N.S. 235(1990)115  
 Zegers, N.D. 213(1988)187  
 Zelić, M. 238(1990)393  
 Zeng, F. 235(1990)239  
 Zeng, Y. 222(1989)205, 235(1990)337  
 Zenki, M. 208(1988)317  
 Zequn, Y. 210(1988)189  
 Zhan, G. 245(1991)13  
 Zhang, C. 217(1989)23, 236(1990)307  
 Zhang, F. 244(1991)169  
 Zhang, H. 235(1990)307  
 Zhang, J. 210(1988)163, 246(1991)55  
 Zhang, L. 233(1990)149  
 Zhang, M. 248(1991)257  
 Zhang, P. 234(1990)483  
 Zhang, P.-X. 222(1989)323  
 Zhang, Q.-W. 236(1990)183  
 Zhang, R.-Q. 217(1989)165  
 Zhang, S. 214(1988)41, 235(1990)323  
 Zhang, S.-Z. 221(1989)85  
 Zhang, X.-X. 237(1990)311  
 Zhang, Y. 217(1989)217, 221(1989)1  
 Zhang, Y.-J. 233(1990)223  
 Zhang, Z. 236(1990)251  
 Zhao, H. 238(1990)345  
 Zhao, X. 235(1990)239  
 Zhao, Y. 230(1990)23  
 Zhao, Z. 212(1988)43, 215(1988)37, 229(1990)213, 230(1990)  
 105, 232(1990)367, 234(1990)403, 236(1990)411, 241(1990)  
 137, 241(1990)161, 244(1991)39, 248(1991)103  
 Zheng, C. 235(1990)239  
 Zheng, C.-Z. 221(1989)345, 221(1989)353  
 Zheng, Y. 225(1989)227, 247(1991)235  
 Zhi, Z.-L. 238(1990)183  
 Zhihong, X. 210(1988)115  
 Zhikun, S. 215(1988)331  
 Zhizhin, G.N. 240(1990)219, 240(1990)235  
 Zhou, C. 236(1990)273  
 Zhou, H. 238(1990)307  
 Zhou, J. 236(1990)293, 249(1991)489  
 Zhou, T. 235(1990)273  
 Zhou, T.-A. 212(1988)61  
 Zhou, W. 249(1991)87  
 Zhou, X. 212(1988)325, 236(1990)411, 240(1990)159, 244  
 (1991)39  
 Zhou, Y.K. 243(1991)127  
 Zhu, G. 231(1990)157, 231(1990)295, 247(1991)37  
 Zhu, G.-Y. 245(1991)109  
 Zhu, J. 233(1990)223  
 Zhu, N.-Z. 225(1989)1  
 Zhu, S.-M. 237(1990)305  
 Zhu, W. 231(1990)295  
 Zhu, Z. 214(1988)41  
 Zhuravleva, E.L. 243(1991)81  
 Zimmer, H. 237(1990)317, 248(1991)163  
 Zimmer, K. 201(1987)289  
 Ziogas, I. 221(1989)295, 222(1989)189  
 Zirino, A. 237(1990)429, 245(1991)177  
 Zolotov, Yu.A. 230(1990)157  
 Zomer, G. 205(1988)175, 205(1988)243, 205(1988)249, 205  
 (1988)267, 227(1989)11, 227(1989)109, 237(1990)61  
 Zoontjes, P.W. 237(1990)61  
 Zoski, C.G. 216(1989)177  
 Zotti, G. 221(1989)27  
 Zou, G. 208(1988)337  
 Zou, Z. 212(1988)325  
 Zoulis, N.E. 204(1988)201  
 Zukale, T. 217(1989)43  
 Zung, J.B. 224(1989)235  
 Zunk, B. 236(1990)337  
 Zupan, J. 210(1988)63, 235(1990)53, 239(1990)311, 248(1991)1  
 Zupančič-Kralj, L. 243(1991)131  
 Zürcher, M. 206(1988)161, 206(1988)173  
 Zurita, J.C. 217(1989)85

**SUBJECT INDEX  
VOLUMES 201-250**





# A

## Ab initio calculations on large molecules

Optimal computational procedures 210(1988)209

## Ab initio prediction

Vibrational spectra; Quadratic force fields, Database 240 (1990)159

## Absolute pH scale

Cyclic voltammetry; Acid-base equilibria; In organic solvents 208(1988)207

## Absorption coefficients

Gas chromatography; I.r. spectrometry; Vapour phase 240 (1990)223

## Accelerator

Mass spectrometry; Calcium; Bone; Rocks; Sample preparation 233(1990)101

## Acenaphthenequinone dioxime

Liquid chrom.; Dimethyl glyoxime; Naphthalene; Palladium; Preconcentration 230(1990)17

## Acesulphame

Molecular electrostatic-potential 210(1988)213

## Acetaldehyde

Gas chromatography; Ethyl acetate; Fermentation; Fusel alcohols; Gas-permeable membrane; Alcoholic fed-batch 213 (1988)231

Chemiluminescence; Enzyme reaction; Xanthine oxidase, Luminol, Potassium hexacyanoferrate(III) 236(1990)459

## Acetaminophen

Kinetic analysis; Spectrophotometry; Pharmaceuticals 218 (1989)313

Kinetic analysis; Spectrophotometry; Iron complex; Serum, Pharmaceutical preparation 224(1989)339

Liquid chrom.; Urine; Electrochemical detection, Dual electrodes, Pharmacokinetics 236(1990)293

Amperometry; Biosensor; Blood; Paracetamol; Dry-strip, Screen-printed 248(1991)361

## Acetate

H.p.l.c.; Ammonium; Antarctic ice; Fluoride; Formate; Methanesulphonate 203(1987)11

Spectrophotometry; Flow system; Fermentation; Phosphate; Process analysis; *E. coli* 249(1991)101

## Acetic acid

Conductometry; Acetone; Computerised array; Ethanol; Semiconductor gas sensors 219(1989)213

## Acetoin

Pattern recognition; Piezoelectric sensors; Alcohols; Amyl acetate; Menthone; Neural network; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

## Acetone

Conductometry; Acetic acid; Computerised array; Ethanol; Semiconductor gas sensors 219(1989)213

## Acetonitrile

Polarography; Complexation; Tin; Dimethylformamide; Free energy of transfer, Stability constants 242(1991)295

Voltammetry; Autoprotolysis constant; Glass electrode; Standardization, Solvent composition, E.m.f. 244(1991)183

## Acetyl ion generation

Coulometry; Organic bases; Oxidation of mercury in acetic anhydride 212(1988)73

## Acetyl-coenzyme A

Flow system; Spectrophotometry; Immobilized, Phosphotransacetylase, CoA-SH, Ellman's reagent 232(1990)281

## Acetylacetone

Kinetic analysis; Ethers; Mass transfer; Extraction; Interfacial 237(1990)237

## Acetylcarbethoxycysteine

Liquid chrom.; Fluorimetry; Urine 226(1989)109

## Acetylcholine

Flow system; Amperometry; Ion exchange; Choline; Enzyme reactor; Lipids 214(1988)173

Amperometry; Acetylcholinesterase; Choline; Choline oxidase; Sensor; Photocross-linkable polymer 228(1990)49

Amperometry; Biosensor; Enzyme reactor; Choline; Immobilized, Hydrogen peroxide 231(1990)27

Potentiometry; Coated-wire electrode; Biosensor; Enzyme electrodes; Immobilized, Hydrogen ion-selective electrode 236(1990)441

## Acetylcholine receptor based biosensor

Cholinergic agents 213(1988)131

## Acetylcholinesterase

Amperometry; Acetylcholine; Choline; Choline oxidase; Sensor; Photocross-linkable polymer 228(1990)49

## Acetylmuramic acid

Spectrophotometry; Hydrolysis, Complex molecules 242 (1991)221

## Acetylsalicylic acid

Liquid chrom.; Aspirin; Pharmacokinetics; Microdialysis sampling; Rats, In vivo 246(1991)181

## Acid decomposition

At. abs. spectrometry; Emission spectrom.; Silica; Metal impurities; Vapour phase, PTFE bomb 245(1991)35

## Acid dissociation constants

pH; Reference values, Standard solutions, Computer program 239(1990)129

## Acid-base

Titrimetry; Partial-least-squares 206(1988)125

## Acid-base disorder

Electrolyte disorder; Expert system 223(1989)269

**Acid-base equilibria**

Cyclic voltammetry; Absolute pH scale; In organic solvents 208(1988)207

Spectrophotometry; Azo dyes; Dissociation constants; Aqueous dimethylformamide 246(1991)429

**Acidity**

Titrimetry; Rain; Substitution approach 217(1989)303

Spectrophotometry; Kinetics; Molybdate; Phosphoantimonylmolybdenum blue 229(1990)115

Process analysis; Automation; Robots; Biological oxygen demand; Yoghurt 238(1990)71

Gradient mixing; Rain water 243(1991)191

**Acidity constants**

Flow system; Potentiometry; Gradient chamber; Weak acid 226(1989)239

Spectrophotometry; Kalman filter; Multicomponent analysis; Noise removal; Method comparison 239(1990)95

**Acids**

Spectrophotometry; Flow system; Bases 206(1988)313

**Acoustic emission**

Opto-acoustic spectrom.; Photoacoustic spectroscopy; Enzyme reactions; Catalase, Hydrogen peroxide, Oxygen effervescence 246(1991)43

**Acoustic emission characterization**

Opto-acoustic spectrom.; Potassium nitrate recrystallization; Polymer stressing; Descriptor distributions 246(1991)23

**Acoustic wave sensors**

Piezoelectric sensing; Quartz acoustic wave crystal; Etched crystal, Aminopropyltriethoxysilane film 248(1991)143

**Acridinium**

Flow system; Chemiluminescence; Immunoassay; Immunoglobulin G 227(1989)97

**Acridinium label**

Chemiluminescence; Immunoassay 227(1989)11

**Acrolein**

Kinetic analysis; Spectrophotometry; Multi-component analysis; Formaldehyde; Wavelength-pair method, Diode-array detection 244(1991)81

**Actinides**

Urine; Alpha spectrometry; Preconcentration; Octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide extractant 238(1990)263

**Activation analysis, correlation problems**

Activ. analysis; Algorithms; Calibration, Determination 236(1990)417

**Acyclic hydrocarbons**

N.m.r. spectrometry; Computer prediction;  $^{13}\text{C}$  chemical shifts, Microcomputer program, Beierbeck-Saunders approach 233(1990)315

**Adamantanamines**

Mass spectrometry; Biological samples; Pharmaceuticals; Mass fragmentography 241(1990)261

**Adenine**

Voltammetry; Adenosine; Cathodic and anodic stripping, Copper(I) compounds 201(1987)11

**Adenine derivative**

Fluorimetry; Liquid chrom.; Chloroacetaldehyde; Chlorofluorobenzyladenine; Plasma 227(1989)189

**Adenosine**

Voltammetry; Adenine; Cathodic and anodic stripping, Copper(I) compounds 201(1987)11

**Adenosine deaminase**

Flow system; Immunoassay; Protein; Sandwich-type 229(1990)47

**Adipokinetic hormones**

Mass spectrometry; Hormones; Peptides; Structure determination; *Locusta migratoria*, Fast atom bombardment, Tandem 248(1991)553

**Adriamycin**

Fluorimetry; Binding; Cisplatin; Tumorigenic cells; Terbium luminescence 205(1988)77

**Adsorption**

Denuder tube; Nitrobenzene; Trichloroethane; Platinum/lead collection surface 226(1989)145

Piezoelectric quartz crystal; Metal ions; Oscillation frequency 245(1991)71

**Adsorption isotherms**

Opto-acoustic spectrom.; Gases; Humidity correction algorithm; Surface acoustic wave sensors 248(1991)337

**Adsorption losses**

At. abs. spectrometry; Mercury; Cold vapour, Tubing adsorption 248(1991)575

**Adsorptive collection**

Voltammetry; Sea water; Titanium; Cathodic stripping voltammetry 221(1989)269

Voltammetry; Sea water; Tin; Cathodic stripping voltammetry 222(1989)43

**Adsorptive stripping**

Voltammetry; Ofloxacin; Pharmaceuticals 231(1990)129

Voltammetry; Cyclic voltammetry; Azinphos-methyl; Guthion; Waters 238(1990)383

**Aerobic and anaerobic wastewater-treatment**

Thermom. analysis; Biological activity; Flow microcalorimetry 213(1988)165

**Affinity chromatography**

Flow system; Immunoglobulin G; Mouse IgG 245(1991)1

**Aflatoxins**

H.p.l.c.; Amperometry; Peanut butter 208(1988)343

**Afterglow discharge**

Emission spectrometry; Polynuclear aromatic hydrocarbons 201(1987)317

**Air**

Potentiometry; Flow system; Mercury; Computerized flow constant-current stripping, Gold fibre electrode 201(1987)269  
Potentiometry; Hydrogen chloride; Diffusion/denuder tubes 202(1987)49

Conductometry; Sulphur dioxide; Wall-jet detector; Preconcentration in water 203(1987)1

Alumina sampling tubes; Hydrogen chloride 206(1988)289

Fluorimetry; Fibre-optic sensor; Sulphur dioxide 208(1988)53

Gas chromatography; At. fluor. spectrometry; Mercury species; Cold-vapour 208(1988)151

Spectrophotometry; Organophosphorus compounds; Inhibition of cholinesterases 217(1989)43

H.p.l.c.; Conductometry; Nitrate; Nitrite; Passive monitors; Sulphate 217(1989)135

Gas chromatography; Mass spectrometry; Diesel particulate; Polynuclear aromatic hydrocarbon; Nitrated polynuclear aromatic hydrocarbon 221(1989)53

Flow system; Carbon disulphide; Hollow-fibre membrane 226(1989)171

Chemiluminescence; Indigodisulphonate; Ozone 230(1990)183

Liquid chrom.; Vanadium; Waters; Reversed-phase, 2-(8-Quinolylazo)-5-*N,N*-diethylaminophenol 233(1990)121

Liquid chrom.; Fluorimetry; Polycyclic aromatic hydrocarbons; Waters; Reversed-phase 234(1990)269

Voltammetry; Nickel; Speciation; Adsorptive stripping, Magnetic extraction 235(1990)457

Sampling procedures; Extraction; Organic volatiles; Pollution 236(1990)197

At. fluor. spectrometry; Mercury; Preconcentration; Gold amalgamation, Cold vapour 236(1990)371

Hydrazine; Ammonia; Polypyrrole-based sensor; Acrylic strips 239(1990)257

Flow system; Organohalogenes; Combustion; Preconcentration 241(1990)71

Spectrophotometry; Lasers, tunable diode; Nitric acid; Temperature sweep tuning 241(1990)95

Potentiometry; Ammonia; Ion-selective electrodes 244(1991)179

At. abs. spectrometry; Lead; Manganese; Mercury; Electrostatic precipitation 245(1991)203

Mass spectrometry; Benzene; Charge exchange; Chloroethyl ethyl sulphide; Low-level air pollutants 245(1991)267

Spectrophotometry; Fibre-optic sensor; Hydrogen cyanide; Automatic detection, Light-emitting diodes 246(1991)259

Flow system; Amperometry; Alcohols; Enzyme reactor; Gas detection; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379

Flow system; Amperometry; Potentiometry; Chlorine; Gas detection; Hydrogen chloride; Continuous monitoring 248(1991)391

Bromine; Ion mobility spectrometry 249(1991)503

**Alanine**

Flow system; Fluorimetry; Enzyme reactor; Serum; Beverages; Immobilized poly(vinyl alcohol) beads 239(1990)307

**Alanine aminotransferase**

Amperometry; Enzyme electrodes; Aspartate aminotransferase; Serum; Glutamate oxidase, Hydrogen peroxide 245(1991)57

**Alcohol dehydrogenase**

Amperometry; Bioelectrode; Ethanol; NADH; Yeast 221(1989)43

**Alcohol dehydrogenase-catalyzed reactions**

Emission spectrometry; Ethanol; Molecular emission cavity analysis 207(1988)355

**Alcohol sensor**

Amperometry; Membrane-bound alcohol dehydrogenase 218(1989)61

**Alcohol-FET sensor**

Potentiometry; Blood ethanol; Enzyme system 207(1988)77

**Alcoholic beverages**

Flow system; Spectrophotometry; Enzyme reactor; Glucose; NADPH formed 211(1988)281

**Alcohols**

Spectrophotometry; Phase-transfer catalysis; Dithiocarbonate 230(1990)203

Quartz crystal resonator; Viscous liquids; Sugars; Piezoelectric sensor 231(1990)317

Potentiometry; Membrane sensors; Potassium; PVC-valinomycin 248(1991)323

Flow system; Amperometry; Air; Enzyme reactor; Gas detection; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379

Pattern recognition; Piezoelectric sensors; Acetoin; Amyl acetate; Menthone; Neural network; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Aldehydes**

H.p.l.c.; Amperometry; Ketones; Photoelectrochemical detector; Mechanism, Alkyl, Aryl 215(1988)45

Gas chromatography; Alkenal-*N*-methylhydrazones 248(1991)619

Flow system; Spectrophotometry; Enzyme reactor; Immobilized yeast aldehyde dehydrogenase, Controlled-pore glass 249(1991)145

**Aldose reductase**

Fluorimetry; Tissue samples 206(1988)357

**Algorithm, recursive**

Spectrophotometry; Signal averaging; Standard deviation 242 (1991)17

**Algorithms**

Chromatography; Column 222(1989)369

Potentiometry; Equilibrium constant 223(1989)419

Kinetic analysis 224(1989)289

Computer; Extraction; Silver nitrate 228(1990)229

Activ. analysis; Calibration, Determination 236(1990)417

Potentiometry; Standard additions 245(1991)283

Mass spectrometry; Isotope distribution 247(1991)107

Mass spectrometry; Elemental analysis 248(1991)71

Titrimetry; Copper complexes; Factor analysis; Multi-equilibria systems 248(1991)447

Multi-equilibria systems; Equilibrium constants 249(1991)353

**Alizarin garnet R**

Fluorimetry; Kinetic analysis; Aluminum 224(1989)363

**Alkali metal halides**

Coulometry; Titrimetry; Potentiometry; Trivalent metal sulphates; Hydrogen/palladium electrode 202(1987)231

**Alkali metal ions**

Voltammetry; Flow system; Alkaline earth metal ions; Glassy carbon fibres 220(1989)269

Ion exchange; Potentiometry; Liquid chrom.; Potassium ion; Valinomycin; Replacement ion chromatography 222(1989)95

Voltammetry; Alkaline earth metal ion; Electrochemical pretreatment; Glassy carbon fibre 222(1989)127

Flow system; Chromatography; Ion exchange; Cyclic voltammetry; Alkaline earth metal ions; Polyaniline-Nafion electrode 246(1991)275

**Alkali metals**

Potentiometry; Ion-selective electrodes; Alkaline earth metals; Polyacrylamide membrane, Acyclic poly(oxyethylene)neutral carriers, Thermodynamics 238(1990)351

Potentiometry; Array electrodes; Prussian Blue coating, Interdigitated, Chemiresistors 242(1991)249

**Alkaline earth ions**

Spectrophotometry; Crown ether dyes; Extraction; Synthesis 204(1988)113

**Alkaline earth metal ions**

Voltammetry; Flow system; Alkali metal ions; Glassy carbon fibres 220(1989)269

Voltammetry; Alkali metal ion; Electrochemical pretreatment; Glassy carbon fibre 222(1989)127

Crown complex; Extraction 224(1989)47

Flow system; Chromatography; Ion exchange; Cyclic voltammetry; Alkali metal ions; Polyaniline-Nafion electrode 246 (1991)275

**Alkaline earth metals**

Potentiometry; Ion-selective electrodes; Alkali metals; Polyacrylamide membrane, Acyclic poly(oxyethylene)neutral carriers, Thermodynamics 238(1990)351

**Alkaline phosphatase**

Amperometry; Bovine liver; Test strip; Theophylline; Whole blood 229(1990)57

**Alkaloids**

Liquid chrom.; Methylenedioxy-N-n-propylnoraporphine; Aporphines; *Cunninghamella elegans* O-dealkylation 233 (1990)191

Liquid chrom.; Fluorimetry; Benzophenanthridine; Papaveraceae 249(1991)231

**Alkanes**

Conductometry; Gas chromatography; Hydrogen; Semiconductor gas sensors; Simplex optimization 216(1989)147

**Alkanethiols**

Cyclic voltammetry; Ferrocenylalkanethiols; Gold electrode; Mixed monolayer films 246(1991)233

**Alkanohydroxamic acids**

Spectrophotometry; Copper; Computer program; LESSDAD, Least squares 234(1990)387

**Alkanolamines**

Liquid chrom.; Chemiluminescence; Chromatography; Ethanolamines; Ion-pair, Luminol 246(1991)447

**Alkyl lysophospholipid**

Fluorimetry; Diphenylhexatriene 227(1989)303

**Alkylamines**

H.p.l.c.; Fluorimetry; Post-column derivatization 212(1988)155

**Alkylbenzenes**

Gas chromatography; Structure retention relationship 212 (1988)317

Gas chromatography; Retention data, Physical property, Topological property 223(1989)161

**Alkylchloramines**

Spectrophotometry; Chloramines 231(1990)161

**Alkyllead**

Gas chromatography; At. abs. spectrometry; Grass; Speciation; Tree leaves 228(1990)77

**Alkyllead species**

Anod. stripping voltammetry; Separation, Coprecipitation, Differential-pulse 212(1988)349

**Alkylporphyrins**

Mass spectrometry; Porphyrins; Fast atom bombardment, Copper-induced dealkylation 241(1990)233

**Alkylsilane**

Gas chromatography; Blood serum; Fluoride 222(1989)121

**Allopurinol**

Potentiometry; Enzyme electrode; Biosensor; Carbon paste electrode, Xanthine oxidase 237(1990)91

## Alloys

At. abs. spectrometry; Hydride generation; Lead; Soils; Oxalic acid-ammonium cerium(III) nitrate-potassium tetrahydroborate medium 231(1990)151

Flow system; Plasmas; Stainless steels; Inductively coupled, Multi-elemental analysis, Flow-through electrolytic cell 245(1991)211

## Alpha counter automation

2- $\pi$  Proportional counting chamber 215(1988)337

## Alpha spectrometry

Actinides; Urine; Preconcentration; Octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide extractant 238(1990)263

## Alternating regression

Gas chromatography; Mass spectrometry; Component reconstruction; Spectral primary space 250(1991)169

## Alumina

I.r. spectrometry; Fourier transform; Photo-induced interaction; Rhenium; Hydroxylated alumina surface 240(1990)211

I.r. spectrometry; Fourier transform; Rhenium; Hydroxylated alumina surface 240(1990)215

## Alumina columns

Liquid chrom.; Solvent strength; Selectivity; Retention mechanism; Polybutadiene-coated 246(1991)113

## Alumina sampling tubes

Air; Hydrogen chloride 206(1988)289

## Aluminium

Flow system; Spectrophotometry; Waters 207(1988)337

Phosphorimetry; Dialysis fluids; Waters; Room-temperature, Ferron chelate in micellar media 212(1988)235

Spectrophotometry; Ethyl tetrabromophenolphthalein; Nickel ion; Pyridyldiphenyltriazine; Steel 221(1989)109

Spectrophotometry; Simplex optimization 223(1989)403

Fluorimetry; Kinetic analysis; Alizarin garnet R 224(1989)363

At. abs. spectrometry; Fluoride; Matrix modifier; Graphite furnace 225(1989)233

Flow system; Liquid chrom.; Fluorimetry; Micelle 225(1989)339

Flow system; Spectrophotometry; Xylenol orange; Zinc; Light emitting diode 230(1990)125

Fluorimetry; Surfactant vesicles; Quinolin-8-ol-5-sulphonic acid; Water; Dialysis fluid 234(1990)181

Flow system; Phosphorimetry; Micelle, Water, Dialysis fluid, Ferron chelate 234(1990)233

Spectrophotometry; Flow system; Waters; Pyrocatechol violet, Field monitor 238(1990)177

Ion exchange; Chromatography; Spectrophotometry; Preconcentration; Pyrocatechol violet, Aqueous samples 238(1990)279

Chemiluminescence; Fluorimetry; Phosphorimetry; Milk powder; Liquid room temperature, Ferron, Vesicles 238(1990)297

Diff. pulse voltammetry; Iron; Waters; Carbon paste electrodes; Preconcentration; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137

Ion exchange; Beryllium; Polystyrene-divinylbenzene resin, *N*-Benzoylphenylhydroxylamine functional group 242(1991)107

Fluorimetry; Waters; Eriochrome Red B, Hexamethylenetetramine 243(1991)121

At. abs. spectrometry; Electrotherm. atomization; Bismuth; Graphite furnace, Chemical modification, Nickel nitrate, Copper nitrate, Diammonium EDTA 248(1991)251

Spectrophotometry; Thermal lens; Mode mismatched 250(1991)95

## Aluminium alloys

At. abs. spectrometry; Cobalt; Steels; Preconcentration; Tetradecyldimethylbenzylammonium thiocyanate adsorbent, Naphthalene support, Nitroso-R salt 237(1990)201

At. abs. spectrometry; Flow system; Copper; Electrolytic dissolution 243(1991)65

## Amidines

Spectrophotometry; Gold; Extraction; Ores; Methylene blue, Diphenylbenzamidine 237(1990)491

## Amidoxime

Ion exchange; Chelating resin; Holmium; Neodymium 221(1989)325

## Amine complexes

I.r. spectrometry; Kinetic analysis; Aniline complexes; Formation constants; Fourier transform, Organic acceptors, Tetracyanoethylene, Fluoranal 240(1991)347

## Amine enantiomers

Liquid chrom.; Dansylproline chiral derivatization; Reversed-phase, Diethyl phosphorocyanidate 243(1991)251

## Amine oxidases

Spectrophotometry; Flow system; Polyamines; Enzyme reactor; Cells; Immobilized, Hydrogen peroxide, Sepharose 237(1990)391

## Amines

Flow system; Fluorimetry; Secondary, Non-aqueous 204(1988)343

Spectrophotometry; Flow system; Nitrite; Aromatic primary 214(1988)207

Spectrophotometry; Primary and secondary aliphatic 218(1989)157

Liquid chrom.; Chemiluminescence; Aminocoumarin; Luminarine; Peroxyoxalate 223(1989)309

Liquid chrom.; Fluorimetry; Dihydrodimethoxymethylloxoxinoxalinearbonyl chloride 223(1989)319

Amperometry; Enzyme electrodes; Plant growth regulators; Carbon paste-pea seedling sensor, Diamine oxidase, Hydrogen peroxide 243(1991)1

Spectrophotometry; Kinetic analysis; Stopped-flow, Dialkylthiocarbamates 244(1991)239

Fluorimetry; 2,3-Diphenylquinolinizinium bromide 245(1991)217

Chemiluminescence; Flow system; Amino acids; Fenton's reagent; Schiff bases; Phenylacetaldehyde, Sodium bis(2-ethylhexyl)sulphosuccinate reversed micellar solution 247(1991)27



**Amino acid analysis**

N.m.r. spectrometry; Mass spectrometry; Humic substances; Soils; Waters; Fulvic acids; Isotope ratios 232(1990)19

**Amino acid enantiomers**

H.p.l.c.; Chiral complex eluent, Reversed-phase 204(1988)145

**Amino acids**

H.p.l.c.; Fluorimetry; Tryptophan; Photochemical reactor 205 (1988)7

Fluorimetry; H.p.l.c.; Carboxylic acids; Peptides; Laser-induced, Selective derivatization 205(1988)15

Flow system; Fluorimetry; Bioluminescence; Enzyme reactor; Serum; Urine; Branched-chain 205(1988)229

H.p.l.c.; Amperometry; Enzyme electrodes; Detectors 209 (1988)259

T.l.c.; Optimization function; Multidimensional 223(1989)411

Kinetic analysis; Kalman filter; Trinitrobenzenesulphonic acid 224(1989)263

Kinetic analysis; T.l.c.; Ninhydrin 224(1989)315

Chemiluminescence; Enzymatic assay; Glucose; Luminol; Micelle 225(1989)147

T.l.c.; Fluorimetry; Phosphorimetry; Coumarinsulphonyl chloride; Ion-pair 227(1989)155

Fluorimetry; Liquid chrom.; Fibre optic; Laser-induced 229 (1990)3

Liquid chrom.; Flow system; Liquid scintillation counting; Extraction; Reversed-phase, Phenylthiohydantoin derivatives 233(1990)181

Liquid chrom.; Glutamic acid; Chiral separation; Enantiomer separation; Chiral stationary phase, Cyclodextrin, Phthalaldehyde derivatization 234(1990)127

Flow system; Spectrophotometry; Lysine; Enzyme reactor 235(1990)329

Diff. pulse polarography; Foods; Serum; Schiff's base, Borax buffer, Acetaldehyde 236(1990)307

Potentiometry; Tyrosine; Phenylalanine; Membrane electrodes; Enzyme reaction; Decarboxylase 239(1990)23

Liquid chrom.; Peptides; Micellar liquid chromatography, Micellar electrokinetic capillary chromatography, Acid-base ionization constants 239(1990)121

Emission spectrometry; Molecular emission cavity analysis; Indirect, Trinitrobenzenesulphonic acid, Sulphur emission 239(1990)161

Liquid chrom.; Chiral derivatization; Carbodiimides; Ivory identification; 2-*N*-benzyloxycarbonylamino acids, *N,N'*-Bis[(*S*)-1-phenylethyl]carbodiimide 239(1990)297

Chromatography; Enantioselective solubilization; Mixed-ligand complexes, *N*-alkyl-L-proline derivatives 242(1991)291

Ion exchange; Peptides; Hollow fibres; Nafion membrane; Permeation 244(1991)21

Amperometry; Cyclic voltammetry; Flow system; Liquid chrom.; Carbohydrates; Constant-potential amperometric detection, Metallic electrodes 244(1991)169

Spectrophotometry; Dithiocarbamates 246(1991)443

Chemiluminescence; Flow system; Amines; Fenton's reagent; Schiff bases; Phenylacetaldehyde, Sodium bis(2-ethylhexyl)sulphosuccinate reversed micellar solution 247(1991)27

Gas chromatography; Mass spectrometry; Protein synthesis 247(1991)255

**Aminoacridine**

Raman spectrometry; Silver substrates; Surface enhanced, Filter-paper, Silver membrane, Glass slide 237(1990)439

**Aminoandrostane quaternary salts**

Mass spectrometry; Steroids; Pipecuronium bromide; Fast atom bombardment, Arduan 241(1990)289

**Aminochlorobenzophenone**

Fluorimetry; Chlordiazepoxide hydrochloride 227(1989)309

**Aminocoumarins**

H.p.l.c.; Chemiluminescence; Fluorimetry 217(1989)11

Liquid chrom.; Chemiluminescence; Amine; Luminarine; Peroxyoxalate 223(1989)309

**Aminomethoxypropane**

D.c. polarography; Diff. pulse polarography; Copper; Dimethylaminoethanol; Waters; Boiler water; Amine complexes, Reduction 239(1990)291

**Aminomethylphosphonic acid**

Gas chromatography; Glyphosate; Herbicide; Nitrogen-phosphorus detector 229(1990)277

Liquid chrom.; Fluorimetry; Glyphosate; Pesticides; Waters; Post-column fluorogenic labelling 233(1990)311

**Aminophenanthroline**

Spectrophotometry; L.r. spectrometry; Mass spectrometry; Iron(II) complexes; Ethanedial; Glyoxal; Carbon paste electrodes; Redox mediators 242(1991)233

**Aminophenyl phosphate substrate**

H.p.l.c.; Immunoassay; Voltammetry; Digoxin 214(1988)187

**Aminopropyltriethoxysilane**

Metal ion; Preconcentration; Silica gel 230(1990)179

**Aminoquinoline**

Amperometry; Pyrolytic graphite electrode 230(1990)91

**Aminosilane**

Fluorimetry; Radiometry; Protein; Thermally pretreated glass 228(1990)107

**Ammonia**

Flow system; Potentiometry; Hydrazine; pH; Power plant steam cycle 214(1988)367

Spectrophotometry; Flow system; Field monitor; Waters 214 (1988)401

Potentiometry; Gas-permeable tubular membrane 219(1989) 309

Flow system; Spectrophotometry; Urea 221(1989)173

Fluorimetry; Biosensor; Fibre-optic; Urea 227(1989)387



Fluorimetry; Gas sensor; Serum; Fibre-optic sensor; Fluoresceins 231(1990)231

Flow system; Chromatography; Fibre-optic sensor; Optosensing; Phosphate; Thin-layer detector 234(1990)31

Potentiometry; Ion-selective electrodes; Nitrogen; Differential, Membrane, Gas-sensing 237(1990)115

Hydrazine; Polypyrrole-based sensor; Air; Acrylic strips 239(1990)257

Flow system; Optimization; Indophenol blue, Simplex method, Powell method 241(1990)31

Potentiometry; Ion-selective electrodes; Air 244(1991)179

Fluorimetry; Flow system; Nitrogen compounds; Creatinine; Enzyme reactor; Serum, Amino acids 245(1991)89

#### **Ammonia membrane electrode**

Potentiometry; Biosensor; Enzyme electrodes; Serum; Urea; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

#### **Ammonium**

H.p.l.c.; Acetate; Antarctic ice; Fluoride; Formate; Methanesulphonate 203(1987)11

Fluorimetry; Spectrophotometry; Urine; Gas-diffusion membrane, pH indicator 208(1988)81

Flow system; Ion-sensitive field effect transistor; pH; Waters; Flow-through 231(1990)53

I.r. spectrometry; Nitrate; Nitrite; Matrix isolation, Alkali metal halide pellets 240(1990)69

#### **Ammonium ions**

Flow system; Spectrophotometry; Ion exchange; Gas-diffusion separation 214(1988)121

Spectrophotometry; Indophenol blue; Salicylate, Nitroprusside 221(1989)147

#### **Ammonium nitrate**

Ion exchange; Metal complexes; Distribution coefficients; Amines, Aquo complexes, Cation-exchange 233(1990)129

#### **Ammonium selective microelectrode**

Potentiometry; Gradients in immobilized urease 213(1988)259

#### **Amniotic fluid**

Emission spectrometry; Inductively coupled plasma, Metals 224(1989)73

#### **Amphetamine**

Fluorimetry; Immunoassay; Methamphetamine; Urine; Polarization 227(1989)287

#### **Ampicillin**

Spectrophotometry; Cloxacillin; Derivative spectroscopy; Pharmaceuticals 209(1988)175

#### **Amplification**

Polarography; Enzyme electrode; Glutamate; Alanine 236(1990)437

#### **Amyl acetate**

Pattern recognition; Piezoelectric sensors; Acetoin; Alcohols; Menthone; Neural network; Odorants; Olfactory system;

Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

#### **Amylase**

Amperometry; Carbohydrate; Lactose; Oligosaccharide dehydrogenase; Enzyme electrode 230(1990)75

Gel perm. chromatography; Flow system; Enzyme reactor; Starch; Glycogen; Controlled-pore glass beads, Hydrolysis 234(1989)97

Fluorimetry; Fluorescence energy transfer, Double-labelled soluble starch, Fluorescein, Procion Red 236(1990)251

#### **Anabolic agents**

Chemiluminescence; Immunoassay; Bovine serum 205(1988)243

#### **Anaerobic adhesive**

Diff. pulse voltammetry; Copper; Iron; Glassy carbon electrode 217(1989)335

#### **Anaesthetics**

At. abs. spectrometry; Flow system; Pharmaceuticals; Indirect, Precipitation 215(1988)241

#### **Analyte recognition**

Carriers; Enzymes; Molecular interaction; Optical sensing; Transduction 250(1991)181

#### **Aniline**

Voltammetry; Carbon-paste electrode, *N*-Alkylated derivatives, Adsorption/extraction 204(1988)201

Spectrophotometry; Microemulsions; Vegetable oils; Diazotization, Coupling, Phase diagrams, Corn oil 235(1990)317

#### **Aniline complexes**

I.r. spectrometry; Kinetic analysis; Amine complexes; Formation constants; Fourier transform, Organic acceptors, Tetracyanoethylene, Fluoranyl 240(1991)347

#### **Animal feeds**

Pattern recognition; Fodder plants; Rumen bacteria; Enzymatically changed, Genetic varieties 213(1988)177

#### **Animal tissues**

Flow system; Spectrophotometry; Creatine 208(1988)307

#### **Anion monitoring**

H.p.l.c.; Amperometry; Differential double-layer capacitance; Electroosmotic, Mercury electrodes 204(1988)95

#### **Anion selectivity**

Potentiometry; Ion-selective electrodes; Trifluoroacetophenones; Neutral ionophores, Solvent-polymeric membranes 233(1990)41

#### **Anion-induced adsorption**

D.c. polarography; Metal ions 218(1989)7

#### **Anionic surfactants**

Fluorimetry; Extraction; Waters; Ion-pair 206(1988)351

#### **Anions**

Ion exchange; Conductometry; Spectrophotometry; H.p.l.c.; Waters; Tiron eluent 206(1988)281

H.p.l.c.; Titrimetry; Gravimetry; Orthogonal regression; Waters 220(1989)207

Titrimetry; Conductometry; Tetra-*n*-octylammonium fluoride; Long-chain quaternary ammonium fluorides 238(1990)389

#### **Annular denuder tube**

Gas chromatography; Nitrobenzene; Nitrogen atmospheres; Electron-capture detection 217(1989)289

#### **Antarctic ice**

H.p.l.c.; Acetate; Ammonium; Fluoride; Formate; Methane-sulphonate 203(1987)11

#### **Anthracene**

Fluorimetry; Benzocarbazole; Solvent effect, Synchronous 215(1988)347

Phosphorimetry; Room-temperature, Solid substrate 225(1989)415

Fluorimetry; Carbazole; Anthraquinones; Zone melting; Biphenyl medium, Synchronous 236(1990)505

#### **Anthraquinones**

Fluorimetry; Carbazole; Anthracene; Zone melting; Biphenyl medium, Synchronous 236(1990)505

#### **Anti-HSA**

Immunoassay; Voltammetry; Cyclic voltammetry; HSA; Immunosensors; Polymer-modified electrodes; Polypyrrole 249(1991)381

#### **Antibiotics**

Mass spectrometry; Structure determination; Computer program; Protein; Peptides; MASSPEC, Graphics-based data system 237(1990)459

Cyclic voltammetry; Ionophores; Monensin; Lasalocid; Gel/electrolyte interface, charge transfer 244(1991)15

#### **Antibiotics production**

Flow system; H.p.l.c.; Process control; On-line 213(1988)1

#### **Antibodies**

Liquid chrom.; Human growth hormone; Serum; Protein G affinity, Reversed phase, Antigen-antibody complexes 249(1991)185

#### **Antibodies to peptides**

Immunoassay; Denatured protein; Short synthetic, Specific recognition 213(1988)187

#### **Antibody expression**

Immunoassay; Electrophoresis; Enzyme-linked immunosorbent assay; Flow cytometry; Hybridoma cells; Monoclonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

#### **Antibody-based biosensors**

Potentiometry; Biosensors; Immunoglobulins; Receptor-based biosensors; Serum 249(1991)67

#### **Antibody-coated sensors**

Piezoelectric sensing; Pesticides; Toluene; Film-free 217(1989)111

#### **Antilog converter**

Flow system; Potentiometry 207(1988)325

#### **Antimony**

At. abs. spectrometry; Electrotherm. atomization; Semiconductor silicon; Solid samples 201(1987)311

Flow system; Kinetic analysis; Molybdenum blue 224(1989)373

At. abs. spectrometry; Hydride generation; Arsenic; Selenium; Sodium tetrahydroborate 237(1990)189

At. abs. spectrometry; Interferences; Transition metal ions; Hydride generation, Sodium tetrahydroborate 244(1991)129

At. abs. spectrometry; Extraction; Waters; Lactic acid complex, Malachite Green ion pair, Graphite furnace 247(1991)7

#### **Antimony speciation**

Potentiometry; Waters; Flow constant-current stripping, Gold fibre electrodes 202(1987)123

#### **Antioxidants**

Liquid chrom.; Time-domain differentiation; Computerized peak resolution; Propyl gallate; Butylhydroquinone; Foods 234(1990)263

#### **Antipyretic**

Liquid chrom.; Function of mutual information; Kalman filter; Mobile phase 222(1989)313

#### **Antipyrinylazo and thiazolylazo compounds**

Spectrophotometry; Titrimetry; Bismuth; Copper; Synthesis 212(1988)253

#### **Antitarnish film**

Raman spectrometry; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Tin; Ethylenediaminetetra-(methylidenephosphonic acid) 238(1990)399

#### **Apolane-87**

Gas chromatography; Reference phase; Squalane 225(1989)193

#### **Aporphines**

Liquid chrom.; Methylenedioxy-*N-n*-propylnoraporphine; Alkaloids; *Cunninghamella elegans* O-dealkylation 233(1990)191

#### **Archaeological glass**

Pattern recognition; Emission spectrometry; Origin, Supervised learning, Optical emission spectrography 201(1987)289

#### **Argon-ion laser**

Fluorimetry; Liquid chrom.; Polynuclear aromatic hydrocarbon 227(1989)173

#### **Aromatic aldehydes**

Fluorimetry; H.p.l.c.; 1,2-Diamino-4,5-ethylenedioxybenzene reagent 215(1988)259

#### **Aromatic compounds**

Polarography; Thermom. analysis; Biosensors; Oxygen electrode; *Pseudomonas cepacia*; Calcium alginate gel, Metabolism 249(1991)17

#### **Array electrodes**

Potentiometry; Alkali metals; Prussian Blue coating, Interdigitated, Chemiresistors 242(1991)249

**Arsenate**

Flow system; Spectrophotometry; Ion exchange; Phosphate; Silicate 204(1988)53

Chromatography; Ion exchange; Germanate; Phosphate; Silicate; Molybdenum blue reaction, Post-column detection 249(1991)539

**Arsenic**

Potentiometry; Flow system; Sea water; Constant-current stripping, Gold fibre electrodes 201(1987)263

Potentiometry; Flow system; Seawater; Urine; Constant-current stripping 207(1988)37

Flow system; Mass spectrometry; Chloroform; Sample introduction 214(1988)385

Isotope dilut. analysis; Marine organism; Methylated arsenic 228(1990)85

Emission spectrometry; Plasma; Inductively coupled, Tandem on-line continuous separation 234(1990)133

At. abs. spectrometry; Hydride generation; Antimony; Selenium; Sodium tetrahydroborate 237(1990)189

At. abs. spectrometry; Extraction; Steels; Waters; Graphite furnace, Arsenomolybdic acid 247(1991)13

**Arsenic speciation**

Coprecipitation; Dibenzylthiocarbamate; Neutron activation 222(1989)159

**Arson**

Gas chromatography; Fires; Sample preparation, Headspace analysis, Liquid-liquid extraction, Adsorption/elution, Distillation 236(1990)183

**Artificial intelligence**

Review 210(1988)9

N.m.r. spectrometry; Prediction of spectra; Carbon-13, Coding system 217(1989)85

I.r. spectrometry; Mass spectrometry; Spectrum interpreter 223(1989)135

Neural networks, Hierarchical clustering, Self-taught instrumentation 235(1990)53

**Artificial-intelligence program**

Mass spectrometry; Pattern recognition; Spectral feature/substructure relationships; Automated elucidation, Tandem 215(1988)169

**Artists' paint**

Spectrophotometry; Organic pigment; Derivative, Reflectance 226(1989)293

**Arylamines**

Spectrophotometry; Micelle; Sulphonamide; Diazotization, Pharmaceutical preparation 223(1989)327

Flow system; Spectrophotometry; Sulphonamides; Diazotization, Coupling, Micellar medium 242(1991)143

**Ascorbate**

Flow system; Amperometry; Cucumber juice as carrier 208(1988)291

**Ascorbic acid**

Spectrophotometry; Pharmaceuticals 209(1988)309

Kinetic analysis; Spectrophotometry; Hexacyanoferrate 224(1989)211

Kinetic analysis; Potentiometry; Biotin; *N*-bromosuccinimide; Pyridoxine hydrochloride; Thiamine hydrochloride 227(1989)405

Voltammetry; Amperometry; Multivitamin preparation; Composite electrode 229(1990)63

Cyclic voltammetry; Amperometry; Diff. pulse voltammetry; Carbon electrodes; Biosensor; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

Fluorimetry; Kinetic analysis; Vitamin pills; Fruit juice; *o*-Phenylenediamine 243(1991)89

Amperometry; Foods; Printed strip electrochemical sensor; Graphite, Tetracyanoquinodimethane modifier 243(1991)173

Spectrophotometry; Flow system; Vitamin C tablets 243(1991)187

Spectrophotometry; Dichlorophenolindophenol, Iron interference 248(1991)225

**Asparaginase**

Conductometry; Biosensor; Enzyme reactor; Urea; Creatinine; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

**Aspartame**

Potentiometry; Sweeteners; Enzyme electrode 206(1988)369

Spectrophotometry; Enzyme reaction; Food; Peptidase cleavage, Glutamate oxidation 234(1990)465

**Aspartate aminotransferase**

Amperometry; Enzyme electrodes; Alanine aminotransferase; Serum; Glutamate oxidase, Hydrogen peroxide 245(1991)57

**Aspartate electrode**

Amperometry; Enzyme electrode 245(1991)63

**Aspirin**

Liquid chrom.; Acetylsalicylic acid; Pharmacokinetics; Microdialysis sampling; Rats, In vivo 246(1991)181

**Atmosphere**

Polichrom A; Preconcentration; Volatile organic compounds 226(1989)213

**Atmospheric pollutants**

I.r. spectrometry; Discriminant analysis techniques; Interferograms 246(1991)85

**Atmospheric sampling**

Mass spectrometry; Glow-discharge ionization source, Ion-trap 225(1989)25

Multivariate correlation analysis; Trace metals; River water 242(1991)5

**ATP**

Flow system; Chemiluminescence; Fibre-optic sensor; NADH; Enzyme system; Polyamide membrane 235(1990)243

**Atrazine**

Gas chromatography; Mass spectrometry; Herbicides; Water; Ion-trap 228(1990)69

Liquid chrom.; Fulvic acids; Ultrafiltration; Laurentian, Binding, Hydrolysis 232(1990)181

Liquid chrom.; Humic acid; Fulvic acid; Herbicides; Laurentian, Ultrafiltration 244(1991)135

**Attenuated total reflection**

I.r. spectrometry; Depth profiling; Poly(ethylene terephthalate) 240(1991)353

I.r. spectrometry; Liquid crystals; Nematic, 5CB, Modulation, Electric field response 240(1991)371

**Auger electron spectroscopy**

Raman spectrometry; X-ray photoelectron spectroscopy; Tin; Antitarnish film; Ethylenediaminetetra(methylenephosphonic acid) 238(1990)399

**Auto-by-cross correlation**

Flow system; Photoionization spectroscopy; Signal processing; Transient signals; Transient photocurrent, Laser-excited photoionization 248(1991)195

**Auto-optimization**

N.m.r. spectrometry; Pattern recognition 221(1989)345

**Autocatalytic effect**

Voltammetry; Nitrate; Water; Second-sweep cyclic voltammetry; Mercury drop electrode 221(1989)131

**Autoclave testing of glass bottles**

Mass spectrometry; Pharmaceutical use, Leached ions, Secondary-ion 201(1987)145

**Automated identification and plotting**

Function, Microcomputer 210(1988)189

**Automated micro batch analyser**

Flow system; Conductometry; Spectrophotometry; Potentiometry; Fluorimetry; Microcomputer control 214(1988)107

**Automated optimization**

Flow system; Pattern recognition; Response surface mapping; Simplex optimization 237(1990)361

**Automated spectral interpretation**

I.r. spectrometry; Review; Structure determination; Computer-assisted interpretation of spectra; Knowledge-based system; Library search, Pattern recognition 240(1990)3

**Automated structure elucidation**

I.r. spectrometry; Symbolic logic; Computer program 220(1989)155

**Automated titrator**

Titrimetry; Ion exchange; Chromatography; Process analysis; Gas treatment; Sulphur; Thiols 238(1990)161

**Automation**

Process analysis; Robots; Biological oxygen demand; Yoghurt; Acidity 238(1990)71

**Autoprotolysis constants**

Carboxylic acid; Dimethylformamide; Solvent effect 228(1990)301

Potentiometry; Ternary solvent; Water-dioxane-methanol 229(1990)261

Voltammetry; Glass electrode; Acetonitrile; Standardization, Solvent composition, E.m.f. 244(1991)183

**Aza-aromatics**

Fluorimetry; Trifluoroethanol; Hydrogen-bonding solvent, Fluorescence enhancement 234(1990)353

**Azidothymidine**

Liquid chrom.; Plasma; AZT, AIDS, Dialysis, Preconcentration, Silver(I)-thiol 236(1990)165

Cyclic voltammetry; Diff. pulse voltammetry; Coulometry; Chronocoulometry; Reduction mechanism, Electrode fouling 248(1991)399

**Azinphos-methyl**

Voltammetry; Cyclic voltammetry; Adsorptive stripping; Guthion; Waters 238(1990)383

**Aziridinylquinones**

Diff. pulse polarography; D.c. polarography; Voltammetry; Potentiometry; Controlled potential electrolysis; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

**Azo dyes**

Spectrophotometry; Waters; Sea water; Nitrite; Formation kinetics, *N*-1-Naphthylethylenediamine, Sulphanilamide 232(199)345

Spectrophotometry; Acid-base equilibria; Dissociation constants; Aqueous dimethylformamide 246(1991)429

## B

**Bacteria**

Potentiometry; Immobilization; Lysine; Lysine decarboxylase; Sensor; Calcium alginate 229(1990)197

Flow system; Amperometry; Microorganisms; Microbiological sensor; Fungi; *Escherichia coli* 234(1990)247

**Bacterial cultures**

Fluorimetry; Fermentation; Mathematical models; Physiological state; Process analysis; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

**Bacterial peptidoglycan degradation**

Fluorimetry; Lysozyme activities; Enzymatic synthesis 205(1988)89

**Barium**

Spectrophotometry; Extraction; Geological samples 206(1988)363

Emission spectrometry; Copper; Superconductor; Yttrium; Inductively coupled plasma 221(1989)167

Emission spectrometry; Sea water; Inductively coupled plasma 222(1989)55

Potentiometry; Ion-selective electrode 222(1989)211

Mass spectrometry; Waters; Sea water; Plasma; Isotope dilution; Inductively coupled 232(1990)323

### **Barium sulphophthalocyanines**

Gas chromatography; Cobalt phthalocyanine; Polycyclic aromatic hydrocarbon; Adsorption, Thermal desorption 224(1989)1

### **Bases**

Spectrophotometry; Flow system; Acids 206(1988)313

### **Basic drug**

Liquid chrom.; Expert system; Ion-pair 223(1989)1

### **Basicity**

Titrimetry; Lysine; Proteins; Nonaqueous 202(1987)159

### **Bentonite clay**

Galacturonic acid; Iron 226(1989)315

### **Benzene**

Mass spectrometry; Air; Charge exchange; Chloroethyl ethyl sulphide; Low-level air pollutants 245(1991)267

### **Benzo[a]pyrene**

Fluorimetry; Liquid chrom.; Solubilization; Polynuclear aromatic hydrocarbons; Coal washing water 243(1991)115

### **Benzo[a]pyrene tetraol**

Immunoassay; Fluorimetry; Biosensor; Fibre-optic sensor; Laser excitation 236(1990)237

### **Benzocarbazole**

Fluorimetry; Anthracene; Solvent effect, Synchronous 215(1988)347

### **Benzodiazepines**

Spectrophotometry; Microwave oven; Benzophenone 224(1989)123

Chemiluminescence; Loprazolam 227(1989)65

Fluorimetry 227(1989)311

Fluorimetry; Tofisopam 227(1989)315

Voltammetry; Midazolam; Quality control; Adsorptive stripping 229(1990)145

Raman spectrometry; I.r. spectrometry; Nitrazepam; Nimetazepam; Clonazepam; Flunitrazepam; Fourier transform 240(1991)287

Diff. pulse voltammetry; Voltammetry; Oxazepam; Camazepam; Temazepam; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

### **Benzophenanthridine**

Liquid chrom.; Fluorimetry; Alkaloids; Papaveraceae 249(1991)231

### **Benzoquinones**

Polarography; Quinones; Naphthoquinones; Bioreductive quinones, Mitomycin, Aziridinylquinone, Antitumour agents 233(1990)251

### **Beryllium**

Titrimetry 207(1988)361

At. abs. spectrometry; Electrotherm. atomization; Urine; Matrix modifier 217(1989)271

Ion exchange; Aluminium; Polystyrene-divinylbenzene resin, *N*-Benzoylphenylhydroxylamine functional group 242(1991)107

### **Beverages**

Flow system; Amperometry; Ethanol; Gas-diffusion membrane; Enzyme reactor; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213

Flow system; Liquid chrom.; Extraction; Caffeine; Zidovudine; Food; Urine 239(1990)171

Flow system; Fluorimetry; Alanine; Enzyme reactor; Serum; Immobilized poly(vinyl alcohol) beads 239(1990)307

### **Biacetyl**

Phosphorimetry; Fat; Room temperature 227(1989)319

Kinetic analysis; Spectrophotometry; Serum; Urea 230(1990)145

### **Bicinchoninic acid**

Coulometry; Spectrophotometry; Voltammetry; Protein 221(1989)223

### **Bienzyme electrode**

Amperometry; Carnitine 208(1988)295

### **Biexponential degradation**

Chemiluminescence; Bis(dinitrophenyl) oxalate; Peroxyoxalate; Diphenylanthracene 227(1989)37

### **Bilayer lipid membranes**

Cyclic voltammetry; Electrical properties, Containing iodine and iodide 201(1987)51

### **Bile acids**

Fluorimetry; Flow system; Liquid chrom.; Enzyme reactor; Serum; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461

### **Binary mixture**

Spectrophotometry; Derivative spectrum 223(1989)395

### **Binary system**

pH 221(1989)295

### **Binding**

Fluorimetry; Adriamycin; Cisplatin; Tumorigenic cells; Terbium luminescence 205(1988)77

### **Binding constants**

Liquid chrom.; Electrophoresis; Micellar chromatography; Capillary zone, Surfactants 231(1990)237

### **Binding parameters**

Spectrophotometry; Drug-macromolecule binding parameters; Numerical analysis; Scatchard plot, Phenylbutazone, Oxyphenbutazone 244(1991)145

### **Biocatalytic accumulation**

Amperometry; Enzyme electrodes; Preconcentration; Glucose 243(1991)17



**Biochemical assays**

Pattern recognition; Liver function 202(1987)175

**Bioctin**

Liquid chrom.; Biotin; Vitamins; Competitive binding; Fluorimetric detection 246(1991)103

**Bioelectrode**

Amperometry; Alcohol dehydrogenase; Ethanol; NADH; Yeast 221(1989)43

**Bioelectrodes from plant tissue**

Amperometry; Flow system; Dopamine; Dual electrode 218(1989)281

**Biological activity**

Thermom. analysis; Aerobic and anaerobic wastewater-treatment; Flow microcalorimetry 213(1988)165

**Biological cells**

Diff. pulse voltammetry; Biosensors; Nickel; Porphyrin micro-sensors; Carbon fibre ultramicroelectrodes, Single cells 249(1991)35

**Biological fluids**

Gas chromatography; Liquid chrom.; Organic acids; Serum; Urine; Extraction 236(1990)121

**Biological materials**

Hydride generation; At. abs. spectrometry; Selenium 201(1987)331

Emission spectrometry; Dissolution; Environmental material; Microwave; Inductively coupled plasma 225(1989)159

Nitric acid; Pressure decomposition 226(1989)1

Nitric acid; Pressure decomposition 226(1989)17

Voltammetry; Nitric acid; Pressure decomposition 226(1989)31

Liquid chrom.; Amperometry; Spectrophotometry; Copper; Iron; Waters; Extraction; Cupferron derivatization 235(1990)279

Gas chromatography; Mass spectrometry; Chloramphenicol; Urine; Eggs; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61

**Biological membranes**

Flow system; Spectrophotometry; Protein; Peptides; *o*-Phthaldialdehyde, Post-column reaction, Subcellular particles 231(1990)249

**Biological molecules**

Voltammetry; Organic donor-acceptor electrodes 206(1988)75

**Biological oxygen demand**

Process analysis; Automation; Robots; Yoghurt; Acidity 238(1990)71

**Biological samples**

Kinetic analysis; Polarography; Paraquat; Photoreduction; Soils; Waters 209(1988)79

At. abs. spectrometry; Mercury; Microwave dissolution; Gold amalgamation, Cold-vapour 220(1989)257

Gas chromatography; Emission spectrometry; Methylmercury; Headspace, Microwave-induced plasma 228(1990)93

Emission spectrometry; Nickel; Microwave-induced plasma; Preconcentration; Nickel carbonyl, Chromosorb 231(1990)265

Fluorimetry; Polynuclear aromatic hydrocarbons; Shpol'skii technique; Mussels; Terns 232(1990)245

Isotope dilut. analysis; Manganese; Foods; Spices; Thenoyl-trifluoroacetone complex 234(1990)445

Chromatography; Sample preparation; Pharmaceuticals; Pesticides; Serum; Blood; Extraction 236(1990)99

Activ. analysis; Rare earth elements; Preconcentration; Sub-stoichiometric precipitation, Calcium oxalate 239(1990)115

Mass spectrometry; Proteins; Glycoproteins; Oligonucleotides; Carbohydrates; Matrix-assisted UV/laser desorption/ionization 241(1990)175

Mass spectrometry; Plasma desorption, Interferences, Vacuum Pump oil, Aluminium oxide clusters 241(1990)241

Mass spectrometry; Adamantanamines; Pharmaceuticals; Mass fragmentography 241(1990)261

At. fluor. spectrometry; Mercury; Reduction aeration, Microwave dissolution 242(1991)203

Mass spectrometry; Plasmas; Lithium; Serum; Foods; Inductively coupled, Standard Reference Materials 244(1991)259

Mass spectrometry; Liquid ionization; Sweat; Diethylene glycol, Exercise 246(1991)405

Conductometry; Elastase; Enzyme activity; *Pseudomonas aeruginosa*; Tetraalanine substrate, Insoluble elastin substrate 247(1991)79

Mass spectrometry; Boron; Nebulization; Inductively coupled plasma, Isotope ratio 248(1991)229

Mass spectrometry; Plasmas; Inductively coupled, Bovine liver, Fish tissue 249(1991)495

Gas chromatography; Fish; Mercury; Organomercury halides; Speciation; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

At. abs. spectrometry; Electrotherm. atomization; Graphite furnace; Continuum source, Furnace atomic non-thermal excitation, Palladium and ruthenium modifiers 250(1991)71

Mass spectrometry; Macromolecules; Tandem sector mass spectrometers; Fourier transform 250(1991)105

**Biological tissues**

Flow system; Spectrophotometry; Phosphorus; Aluminium block digestion 209(1988)299

Flow system; At. abs. spectrometry; Cadmium; Microwave digestion; Zinc 214(1988)421

**Bioluminescence**

Flow system; Fluorimetry; Amino acids; Enzyme reactor; Serum; Urine; Branched-chain 205(1988)229

**Biomarkers**

Gas chromatography; Mass spectrometry; Hopanes; Petroleum; Triterpanes; Crude oil 235(1990)375

**Biomass**

Flow system; Sugars; Lactic acid; Protein; Fermentation; Enzyme reactor; On-line 237(1990)165



Spectrophotometry; Chemiluminescence; Flow system; Fermentation; Glucose; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

### **Biomaterials**

Mass spectrometry; Biomineralization; Bone; Teeth; Secondary ion 241(1990)299

### **Biomembranes**

Fluorimetry; Lindane; Quenching 205(1988)61

### **Biomineralization**

Mass spectrometry; Biomaterials; Bone; Teeth; Secondary ion 241(1990)299

### **Biomolecule purification**

Electrophoresis; Staining system; Automated 213(1988)207

### **Bioorganic molecules**

Mass spectrometry; Formylaminoethanol; Oligosaccharides; Peptides; Fast atom bombardment, Matrix 241(1990)219

### **Bioprocess monitoring**

Flow system; Spectrophotometry; Fermentation; Glucose ammonia proteins; Process analysis; Diode-array, Stopped-flow 249(1991)77

Flow system; Turbidimetry; Fermentation; Process analysis; Proteins; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113

### **Bioreactors**

Potentiometry; Voltammetry; Flow system; Fluorimetry; Yeasts; High-performance, On-line sensors 213(1988)199

Flow system; Fermentation; Membrane modules; Penicillin fermentation; Process monitoring; Ammonium, Glucose 249(1991)123

Flow system; Immunoassay; Enzyme-linked immunosorbent assay; Process monitoring 249(1991)163

### **Biosensors**

Potentiometry; Enzyme electrodes; Review; Electronic, Opto-electronic 213(1988)23

Fluorimetry; Glucose; Glucose oxidase 221(1989)195

Polarography; Fish meat; Hypoxanthine; Xanthine oxidase 221(1989)215

Amperometry; Salicylate; Whole blood 224(1989)39

Flow system; Fibre-optic; Fruit juice; Glucose; Wine 225(1989)293

Fluorimetry; Immunoassay; Fibre-optic; Phenytoin 227(1989)135

Fluorimetry; Ammonia; Fibre-optic; Urea 227(1989)387

Potentiometry; Immobilization; Coated-wire electrode 228(1990)159

Flow system; Spectrophotometry; Immobilized enzyme 230(1990)199

Amperometry; Enzyme reactor; Choline; Acetylcholine; Immobilized, Hydrogen peroxide 231(1990)27

Conductometry; Enzyme reactor; Urea; Asparaginase; Creatinine; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

Cyclic voltammetry; Amperometry; Diff. pulse voltammetry; Carbon electrodes; Ascorbic acid; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

Potentiometry; Oxygen electrode; Ag/AgCl anode, Gold anode, Silicon wafer, Miniature Clark-type oxygen electrode, Semiconductor technique 233(1990)275

Flow system; Lactic acid; Fibre-optic sensor; Dairy fermentation; Kefir culture; Immobilized lactate oxidase 234(1990)107

Flow system; Fermentation; Enzyme electrode; Modified graphite electrode, Glucose dehydrogenase, Glucose 235(1990)265

Immunoassay; Fluorimetry; Fibre-optic sensor; Benzo[a]pyrene tetraol; Laser excitation 236(1990)237

Potentiometry; Acetylcholine; Coated-wire electrode; Enzyme electrodes; Immobilized, Hydrogen ion-selective electrode 236(1990)441

Potentiometry; Allopurinol; Enzyme electrode; Carbon paste electrode, Xanthine oxidase 237(1990)91

Amperometry; Hydroxybutyrate; Blood; Plasma; Enzyme electrodes; Platinized carbon electrode, NADH 237(1990)99

Amperometry; Enzyme electrode; Catechol; Eggplant; Bi-amperometric, Carbon paste electrode, Polyphenol oxidases 237(1990)107

Flow system; Field effect transistor; Glucose; Urea; Penicillin; Cephalosporin C; Process analysis 238(1990)201

Thermom. analysis; Process analysis; Enzyme thermistor; Sugars; Glucose, Maltose, Sucrose, Fermentation 238(1990)211

Amperometry; Hydrogen peroxide; Enzyme electrode; Human erythrocytes, Catalase activity 239(1990)19

Amperometry; Enzyme electrodes; Glucose; Ugi reaction, Immobilization, Cyclohexyl cyanide, Glutaraldehyde 239(1990)263

Cyclic voltammetry; Diff. pulse voltammetry; Flow system; Plant tissue-vitreous carbon electrodes; Mushroom, Potato, Horseradish 242(1991)259

Chemiluminescence; Fibre-optic sensor; Enzyme-catalysed reactions; Self-contained, Entrapped co-reactant 243(1991)149

Potentiometry; Chemoreceptors; Trimethylamine oxide; Crab antennular receptrodes; Hawaiian crabs 243(1991)157

Amperometry; Enzyme electrodes; Hypoxanthine; Fish; Foods; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161

Ion exchange; Flow system; Glucose sensors; Poly(ester-sulfonic acid) coatings 245(1991)139

Amperometry; Flow system; Enzyme electrodes; Glucose; Glucose dehydrogenase, Benzene-1,4-dicarboxamide *N,N*-bis(benzophenoxazinyl) derivative 246(1991)283

Amperometry; Enzyme reactor; Foods; Sucrose; Yeast cell walls; Invertase, Mutarotation, Phosphate 247(1991)83

Flow system; Fluorimetry; Fibre-optic sensor; Foods; Glutamate; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351

Amperometry; Acetaminophen; Blood; Paracetamol; Dry-strip, Screen-printed 248(1991)361

Enzyme electrodes; Organic phase; Review 249(1991)1

Polarography; Thermom. analysis; Aromatic compounds; Oxygen electrode; *Pseudomonas cepacia*; Calcium alginate gel, Metabolism 249(1991)17

Flow system; Fluorimetry; Fermentation; Field-effect transistors; Process analysis; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

Diff. pulse voltammetry; Biological cells; Nickel; Porphyrin microelectrodes; Carbon fibre ultramicroelectrodes, Single cells 249(1991)35

Amperometry; Glucose; Enzyme electrodes; Glucose dehydrogenase, Glucose oxidase 249(1991)43

Amperometry; Chloroplast membranes; Phytotoxicity; Thylakoid membranes; Waters; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55

Fermentation; Sampling system; Coaxial catheter, Sterile monitoring, Glucose, Lactate, Blood 249(1991)61

Potentiometry; Antibody-based biosensors; Immunoglobulins; Receptor-based biosensors; Serum 249(1991)67

Voltammetry; Catecholamines; Enzyme reactor; Indoleamines; Ion-selective electrodes; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

Kinetic analysis; Amperometry; Electron transfer; Quinoproteins; Methylamine dehydrogenase; Amicyanin, Cytochrome c 249(1991)235

Potentiometry; Ammonia membrane electrode; Enzyme electrodes; Serum; Urea; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

Immunoassay; Potentiometry; Capacitance; Enterotoxin B; Semiconductors; Toxins; Antibody fixation, Grafted immunospecies 249(1991)367

Amperometry; Flow system; Chemically modified electrodes; Enzyme reactor; Immobilized, Selective detection 250(1991)203

Amperometry; Immunoassay; Enzyme electrodes; Fibre-optic sensors; Immunosensors; Bioaffinity, Biocatalytic 250(1991)249

### **Biotechnology assays**

Flow system; Spectrophotometry; High-sensitivity flow injection; Macromolecules 214(1988)87

### **Biotin**

Kinetic analysis; Spectrophotometry; Competitive binding; Vitamin tablets; Homogeneous enzyme-linked 208(1988)43

Kinetic analysis; Potentiometry; Ascorbic acid; *N*-bromosuccinimide; Pyridoxine hydrochloride; Thiamine hydrochloride 227(1989)405

Liquid chrom.; Biocytin; Vitamins; Competitive binding; Fluorimetric detection 246(1991)103

### **Bis(2,4-dinitrophenyl) oxalate**

I.r. spectrometry; Kinetic analysis; Hydrolysis; Decomposition products 247(1991)141

### **Bis(2,4-dinitrophenyl) oxalate degradation**

Chemiluminescence; Spectrophotometry 205(1988)207

### **Bis(dinitrophenyl) oxalate**

Chemiluminescence; Biexponential degradation; Peroxyoxalate; Diphenylanthracene 227(1989)37

### **Bis(trimethylpentyl)phosphinic acid**

Extraction; Lanthanide 227(1989)397

### **Bis-2-chloroethyl sulphide**

Ion mobility spectrometry; Digital filters; Vapour monitors; Narrow-bandpass 232(1990)261

### **Bisaziridinylbis(ethoxycarbonylamino)benzoquinone**

Diff. pulse polarography; D.c. polarography; Voltammetry; Potentiometry; Controlled potential electrolysis; Aziridinylquinones; Quinones; Diaziquone, Bioreductive alkylating quinones 234(1990)285

### **Bismuth**

Potentiometry; Copper; Mercury; Urine; Constant-current stripping, Gold fibre electrode 202(1987)117

Anod. stripping voltammetry; Sea water; Square-wave, Glassy-carbon rotating-disk electrode 204(1988)161

Electrotherm. atomization; At. abs. spectrometry; Copper; Extraction; Zinc; Thiocyanate 209(1988)281

Spectrophotometry; Copper-base alloys; Extraction 211(1988)305

Spectrophotometry; Titrimetry; Antipyrinylazo and thiazolylazo compounds; Copper; Synthesis 212(1988)253

Flow system; Spectrophotometry; Tetramethylenebis(triphenylphosphonium) cation 225(1989)449

I.r. spectrometry; Composites; Dielectric constant; Two-phase, Topology 240(1990)173

At. abs. spectrometry; Extraction; 2-(2-Benzoxazolyl)cyanoacetaldehyde, 2-(2-Benzoxazolyl)malonaldehyde 244(1991)123

At. abs. spectrometry; Electrotherm. atomization; Aluminium; Graphite furnace, Chemical modification, Nickel nitrate, Copper nitrate, Diammonium EDTA 248(1991)251

### **Bistrichlorophenyl oxalate**

Chemiluminescence; Micellar system 217(1989)229

### **Blood**

Fluorimetry; Triethylenethiophosphoramidate 201(1987)77

Flow system; Fluorimetry; Enzyme reactor; Lactate; Immobilized 201(1987)351

Flow system; Potentiometry; Urea; Ammonium electrode, Immobilized urease 209(1988)239

Flow system; Potentiometry; Lead; Computerized stripping 209(1988)339

H.p.l.c.; Flow system; Voltammetry; Uracil derivatives; Urine; Differential pulse, Cathodic stripping 211(1988)175

Conductometry; Kinetic analysis; Enzyme activities 213(1988)267

Fluorimetry; Cyanide; Urine; Taurine, Naphthalenedialdehyde 225(1989)351

Chemiluminescence; Flow system; Creatine kinase; Bioluminescence 227(1989)29

T.l.c.; Fluorimetry; Glutathione 227(1989)203

Spectrophotometry; Flow system; Ethanol; Enzyme reactor; Dialyser; Immobilized, Alcohol dehydrogenase 231(1990)115

Potentiometry; Potassium; Serum; Ion-selective electrodes; Silicon rubber tubular electrode, Valinomycin-treated 231(1990)125

Enzyme reactor; Plasma; Glucose; Cellulose membranes; Dialysis cell, NADH, Haematocrit 231(1990)165

At. abs. spectrometry; Cadmium; Electrothermal atomization, Aqueous standards, L'vov platform 231(1990)283

Enzyme electrodes; Glucose; Polycarbonate membrane; Hydrogen peroxide, Isopropyl myristate 232(1990)357

Ion-selective electrodes; Ion-sensitive field effect transistor; Fibre-optic sensor; Ionophores; Sodium; Serum; Lipophilic, 1,2-Phenylenedioxidiacetamides 233(1990)295

Flow system; Amperometry; Enzyme electrode; Glucose; Mediator 234(1990)321

Chromatography; Sample preparation; Pharmaceuticals; Pesticides; Biological samples; Serum; Extraction 236(1990)99

Amperometry; Hydroxybutyrate; Plasma; Biosensor; Enzyme electrodes; Platinized carbon electrode, NADH 237(1990)99

Amperometry; Flow system; Glucose; Enzyme reactor; Chemically modified electrode, Segmented sample injection, On-line dialysis, Haematocrit 237(1990)405

Gas chromatography; Mass spectrometry; Ifosfamide 247(1991)229

Amperometry; Acetaminophen; Biosensor; Paracetamol; Dry-strip, Screen-printed 248(1991)361

### **Blood ethanol**

Potentiometry; Alcohol-FET sensor; Enzyme system 207(1988)77

### **Blood glucose**

Amperometry; Carbon-fibre; Glucose-oxidase; Stopped-flow dialysis 221(1989)205

### **Blood serum**

Gas chromatography; Alkylsilane; Fluoride 222(1989)121

Phosphorimetry; Rodenticide; Warfarin; Room-temperature phosphorescence 222(1989)177

Fluorimetry; Calcein blue; Magnesium 227(1989)211

Flow system; Teniposide; Multivariate calibration 241(1990)23

### **Body fluids**

Emission spectrometry; Elements; Discrete nebulization, Nitrous oxide/acetylene 207(1988)349

Spectrophotometry; Flow system; Urea; Urease reactor 218(1989)151

Review; Ion-selective electrodes 233(1990)1

### **Boiler water**

Polarography; Copper; Dimethyl aminopropanol; Volatile amine 229(1990)149

D.c. polarography; Diff. pulse polarography; Copper; Aminomethoxypropane; Dimethylaminoethanol; Waters; Amine complexes, Reduction 239(1990)291

### **Bone**

Mass spectrometry; Calcium; Accelerator; Rocks; Sample preparation 233(1990)101

Mass spectrometry; Biomineralization; Biomaterials; Teeth; Secondary ion 241(1990)299

### **Borate**

Spectrophotometry; Diborane; Hydride generation; Boric acid 246(1991)413

### **Boron**

Spectrophotometry; Ion exchange; Geological materials 211(1988)243

Flow system; Emission spectrometry; Plasmas; Waters; Inductively coupled 218(1989)69

Titrimetry; Potentiometry; Metal borides; Multiparametric curve-fitting 219(1989)273

Flow system; Spectrophotometry; Soil; Ultrasonic leaching 226(1989)221

Extraction; Rocks; Isotopic ratios; Alkali fusion, Methyl borate distillation, Isotope dilution 231(1990)147

Flow system; Spectrophotometry; Waters; Preconcentration; Azomethine-H complex 234(1990)199

Mass spectrometry; Titanium; Plasmas; Inductively coupled; Reference material, Homogeneity 244(1991)115

Emission spectrom.; Direct current; Plasmas; Silica; Acid decomposition, Mannitol 245(1991)207

Mass spectrometry; Biological samples; Nebulization; Inductively coupled plasma, Isotope ratio 248(1991)229

### **Boron preservatives**

Titrimetry; Wood; Collaborative studies; Statistical analysis; Quality control; Boric acid 236(1990)423

### **Boronic acid derivative**

Fluorimetry; Liquid chrom.; Brassinosteroid 222(1989)201

### **Bovine brain tissue**

Gangliosides; DNA probes; Pharmaceuticals; Quality control; Dot-blot hybridization 249(1991)291

### **Bovine liver**

Amperometry; Alkaline phosphatase; Test strip; Theophylline; Whole blood 229(1990)57

### **Bovine serum**

Chemiluminescence; Immunoassay; Anabolic agents 205(1988)243

### **Bovine serum albumin**

Voltammetry; Adsorptive stripping 212(1988)355

### **Brassinosteroid**

Fluorimetry; Liquid chrom.; Boronic acid derivative 222(1989)201

Liquid chrom.; Fluorimetry; Dansylaminophenylboronate 228(1990)101

### **Brine**

Spectrophotometry; Flow system; Calcium; Magnesium; Preconcentration 214(1988)439

Ion exchange; Rare earth elements; Preconcentration 220 (1989)243

Spectrophotometry; Flow system; Sulphite; Potassium chloride; Process analysis; 5,5'-Dithiobis(2-nitrobenzoic acid) 238 (1990)171

### **Bromide**

Spectrophotometry; Kinetic analysis; Waters 206(1988)273

Potentiometry; Silver complexes stability constants; Thiocyanate; Monte Carlo methods 215(1988)187

Piezoelectric sensing; Catalysis of permanganate/iodide reaction 217(1989)327

Spectrophotometry; Flow system; Chloride; Waters; Mercury(II) and silver thiocyanate minicolumns 245(1991)115

### **Bromine**

Air; Ion mobility spectrometry 249(1991)503

### **Bromopyridinium ion**

Polarography; Potentiometry; Dissociation constant 224 (1989)109

### **Bromopyridylazodiethylaminophenol**

Spectrophotometry; Nuclear reprocessing; Uranium 228 (1990)279

Liquid chrom.; Chelation; Mineral sample; Transition metal; Water 230(1990)23

### **N-Bromosuccinimide**

Kinetic analysis; Potentiometry; Ascorbic acid; Biotin; Pyridoxine hydrochloride; Thiamine hydrochloride 227(1989)405

### **Bronsted acids**

Potentiometry; Dissociation constants; Polyaza macrocycles; Polyoxa-polyaza macrocycles; Water, Deuterium oxide 245 (1991)271

### **Butylhydroquinone**

Liquid chrom.; Time-domain differentiation; Computerized peak resolution; Propyl gallate; Antioxidants; Foods 234 (1990)263

## **C**

### **Cadmium**

Anod. stripping voltammetry; Cobalt; Copper; Lead; Nickel; Waters; Differential-pulse 204(1988)179

Potentiometry; Flow system; Lead; Nafion-modified carbon fibre electrodes; Urine; Zinc; Computerized flow, Stripping 207(1988)17

Extraction Zinc 207(1988)367

Anod. stripping voltammetry; Extraction; Indium; Lead; Thallium; Diethyldithiocarbamates 208(1988)219

Flow system; At. abs. spectrometry; Biological tissues; Microwave digestion; Zinc 214(1988)421

Anod. stripping voltammetry; Copper; Internal standard; Lead; Waters; High-accuracy, Differential-pulse, Indium 215 (1988)21

Anod. stripping voltammetry; Lead; Square-wave, Mercury-plated reticulated vitreous carbon electrode 219(1989)153

Polarography; Lead; Stability constant; Oxalate, Sulphate 223 (1989)429

Voltammetry; Microcomputer 225(1989)391

Polarography; Polyacrylic acid; Polymethacrylic acid; Zinc 229(1990)93

At. abs. spectrometry; Blood; Electrothermal atomization, Aqueous standards, L'vov platform 231(1990)283

At. abs. spectrometry; Extraction; Metal ions; Cobalt; Nickel; Zinc; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

Chromatography; Spectrophotometry; Copper; Zinc; Preconcentration; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393

At. abs. spectrometry; Lead; Mineral acids 233(1990)165

D.c. polarography; Indium; Polyethylene glycol monostearate 233(1990)325

Anod. stripping voltammetry; Diff. pulse voltammetry; Lead; Mercury-poly(4-vinylpyridine) coating, Glassy carbon electrode 234(1990)479

At. abs. spectrometry; Waters; Environmental samples; Lead; Copper; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

At. abs. spectrometry; Electrothermal atomization, Molybdenum tube, Sulphur modifier, Interference, Atom formation processes 236(1990)479

Anod. stripping voltammetry; Voltammetry; Electrochemical cell; Lead; Epinephrine; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

Anod. stripping voltammetry; Diff. pulse voltammetry; Mercury electrodes; Polymer modified electrodes; Copper; Lead 238(1990)345

Potentiometry; Polarography; Coated-wire electrodes; Ion-selective electrodes; Neutral carrier, 4,4'-di(5-nonyl)-2,2'-bipyridine, Selectivity coefficients 248(1991)315

Voltammetry; Iridium microelectrode; Lead; Trace metals; Waters; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419

Anod. stripping voltammetry; Lead; Cylindrical graphite fibre microelectrodes, In situ plated mercury films, Square-wave 249(1991)433

Activ. analysis; At. abs. spectrometry; Cobalt; Copper; Mercury; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

### **Caesium hydroxide**

I.r. spectrometry; High temperature spectrum 240(1991)383

### **Caffeine**

H.p.l.c.; Octadecyl phases; Purine bases; Serum; High-density, Chemically bonded, Silica gels 208(1988)263

H.p.l.c.; Morphine; Plant materials; Quinine; Serum; Super-critical fluid extraction 213(1988)237

Spectrophotometry; Theobromine; Cocoa beans; Chloroform extraction 232(1990)409

Flow system; Liquid chrom.; Extraction; Zidovudine; Bever-ages; Food; Urine 239(1990)171

Liquid chrom.; Phosphorimetry; Theophylline; Theobromine; Solid-surface room-temperature 244(1991)215

### **Calcein blue**

Fluorimetry; Blood serum; Magnesium 227(1989)211

### **Calchichrome structure**

N.m.r. spectrometry; I.r. spectrometry; Spectrophotometry 217(1989)31

### **Calcium**

H.p.l.c.; Spectrophotometry; Magnesium; Water; Post-column reaction 204(1988)87

Fluorimetry; Serum 209(1988)303

Fluorimetry; Fibre-optic sensor 212(1988)267

Spectrophotometry; Flow system; Magnesium; Waters; Simul-taneous 212(1988)291

At. abs. spectrometry; Flow system; Interference removal; Flame 214(1988)339

Spectrophotometry; Flow system; Brine; Magnesium; Precon-centration 214(1988)439

Potentiometry; Titrimetry; Magnesium; Waters 218(1989)47

Potentiometry; Titrimetry; Oil-based drilling fluids 219(1989)147

Spectrophotometry; Flow system; Lanthanum 222(1989)205

Spectrophotometry; Flow system; Magnesium; Diode-array, Arsenazo 224(1989)23

Mass spectrometry; Accelerator; Bone; Rocks; Sample prepa-ration 233(1990)101

Potentiometry; Serum; Iminodiacetate complexation 233(1990)269

Chromatography; Flow system; Ion exchange; Potentiometry; Ion-selective electrodes 242(1991)65

Spectrophotometry; Magnesium; Waters; PAR complexes 249(1991)513

### **Calcium carbonate**

Potentiometry; Crystal growth; Phosphate; Urine 229(1990)249

### **Calcium carbonate scale**

At. abs. spectrometry; Electrotherm. atomization; Carbonate rocks; Copper; Solid samples 209(1988)287

### **Calcium channel**

Liquid chrom.; Chloroquine; Plasma 228(1990)155

### **Calcium ion sensor**

Reflectance spectrometry; Optical sensor; Chromogenic crown ether 213(1988)251

### **Calcium selective electrodes**

Flow system; Potentiometry 211(1988)213

### **Calcium selective optrode**

Fluorimetry; Potentiometry; Langmuir-Blodgett film 217(1989)1

### **Calibration**

Emission spectrometry; Signal analysis; Inductively coupled plasma, Microlitre sample 226(1989)73

Flow system; Sample introduction; Variable-volume injector 234(1990)253

Spectrophotometry; Rare earth elements; Chromogenic reagents; Ill-conditioned system calibration 234(1990)483

Potentiometry; Enzyme reactor; Pyridostigmine; Plasma; Op-timization 236(1990)431

Thermom. analysis; Capillary melting-point apparatus; Ther-mometers; International Temperature Scale, Fluxed highly pure metals 237(1990)241

Flow system; Amperometry; Sulphate; Indirect determination 238(1990)431

Raman spectrometry; Carbon; Peak temperature history; Car-bon phenolic heat-shields, Multivariate, Loading vectors 240(1990)35

Polynomial curve-fitting; Computer program; STATCAL-CALIBRA 241(1990)1

Flow system; Spectrophotometry; Interferences; Curvature correction, Gradient ratio calibration, Chloride, Phosphate 241(1990)15

X-ray fluo-res. spectrometry; Neural networks; Genetic algo-rithm, Backward error propagation 247(1991)97

Liquid chrom.; Factor analysis; Kalman filter; Multi-wave-length detection; Rank annihilation 250(1991)37

### **Calmodulin**

Fluorimetry; Förster energy transfer; Protein dynamics; Transferrin 205(1988)161

### **Camazepam**

Diff. pulse voltammetry; Voltammetry; Oxazepam; Temaze-pam; Benzodiazepines; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

### **Camomile extract**

Gas chromatography; Component number; Capillary, Statisti-cal estimation 212(1988)165

### **Candida albicans**

Immunoassay; Human olfactory function 217(1989)281

### **Canonical correlation analysis**

Orange juice dilution 212(1988)309

### **Canonical discriminant analysis**

Pattern recognition; Mass spectrometry; Molecular speciation; Microparticles; Principle component analysis; Nickel com-pounds; Laser microprobe 243(1991)139

### **Capacitance**

Immunoassay; Potentiometry; Biosensors; Enterotoxin B; Semiconductors; Toxins; Antibody fixation, Grafted im-munospecies 249(1991)367



**Capillary**

Electrophoresis; Liquid chrom. 250(1991)45

**Capillary digester**

Spectrophotometry; Flow system; Phosphorus; Waters 214 (1988)229

**Capillary flow cell**

Flow system; Spectrophotometry; Pesticides; Optical fibres 234(1990)141

**Capillary melting-point apparatus**

Thermom. analysis; Calibration; Thermometers; International Temperature Scale, Fluxed highly pure metals 237(1990)241

**Capillary suction pump**

Flow system; Chemical sensors 209(1988)57

**Carazolol**

Liquid chrom.; Spectrophotometry; T.L.c.; Pig kidney; Tranquillizer 225(1989)137

**Carbamates**

Diff. pulse polarography; D.c. polarography; Pirimicarb; Pesticides; Tast 234(1990)309

**Carbamoylamino acids**

Mass spectrometry; Urine; Urea cycle disorder; Fast atom bombardment, Tandem, *tert*-Butyldimethylsilyl derivatives 241(1990)273

**Carbaryl**

Fluorimetry; Fubridazol; Pesticide mixture; Warfarin; Variable-angle scanning 228(1990)293

**Carbazole**

Fluorimetry; Anthracene; Anthraquinones; Zone melting; Biphenyl medium, Synchronous 236(1990)505

**Carbodiimides**

Diff. pulse polarography; Cyclic voltammetry 234(1990)471

Liquid chrom.; Amino acids; Chiral derivatization; Ivory identification; 2-*N*-benzyloxycarbonylamino acids, *N,N'*-Bis[(*S*)-1-phenylethyl]carbodiimide 239(1990)297

**Carbohydrates**

Flow system; Amperometry; Enzyme reactor; Starch; Immobilized glucoamylase 204(1988)43

Amperometry; Conductometry; Pulsed 204(1988)323

Amperometry; Amylase; Lactose; Oligosaccharide dehydrogenase; Enzyme electrode 230(1990)75

Liquid chrom.; Amperometry; Enzyme reactor; Immobilized, Post-column derivatization 234(1990)13

Mass spectrometry; Biological samples; Proteins; Glycoproteins; Oligonucleotides; Matrix-assisted UV/laser desorption/ionization 241(1990)175

Amperometry; Flow system; Chemically modified electrodes; Nickel, Glassy carbon 243(1991)61

Amperometry; Cyclic voltammetry; Flow system; Liquid chrom.; Amino acids; Constant-potential amperometric detection, Metallic electrodes 244(1991)169

Liquid chrom.; Flow system; Cyclic voltammetry; Amperometry; Sugars; Nickel-catalysed glassy carbon electrode 248 (1991)117

**Carbon**

Raman spectrometry; Calibration; Peak temperature history; Carbon phenolic heat-shields, Multivariate, Loading vectors 240(1990)35

**Carbon black extract**

H.p.l.c.; Fluorimetry; Polynuclear aromatic hydrocarbons; Shpol'skii effect 208(1988)183

**Carbon dioxide**

Gas chromatography; Carbon monoxide; Methane; Temperature programmed decomposition 217(1989)197

Fluorimetry; Fibre-optic sensor 219(1989)223

Flow system; Sulphur dioxide; Wine; Gas-diffusion 225(1989)443

**Carbon disulphide**

Flow system; Air; Hollow-fibre membrane 226(1989)171

**Carbon electrodes**

Cyclic voltammetry; Amperometry; Diff. pulse voltammetry; Biosensor; Ascorbic acid; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

**Carbon fibre electrodes**

Voltammetry; Potentiometry; Hydrogen ion concentration 212(1988)23

**Carbon monoxide**

Gas chromatography; Carbon dioxide; Methane; Temperature programmed decomposition 217(1989)197

I.r. spectrometry; Nitric oxide; Platinum/silica catalysts; Adsorption 240(1990)139

**Carbon paste electrodes**

Voltammetry; Phase-sensitive alternating current, Background current 206(1988)385

Cyclic voltammetry; Diff. pulse polarography; Celiptium; Pharmaceuticals; Lipid modification 236(1990)299

Diff. pulse voltammetry; Iron; Waters; Aluminium; Preconcentration; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137

Spectrophotometry; I.r. spectrometry; Mass spectrometry; Iron(II) complexes; Ethanedial; Glyoxal; Aminophenanthroline; Redox mediators 242(1991)233

Cyclic voltammetry; Amperometry; Iron(II) complexes; Ethanedial; Glyoxal; Redox mediators 242(1991)241

**Carbon paste-electrode**

Cyclic voltammetry; Gold; Chelating resin modified 232 (1990)367

**Carbon-13 nuclear magnetic resonance**

N.m.r. spectrometry; Computer-aided; Terpenoid identification; Natural products 236(1990)501



**Carbon-fibre**

Amperometry; Blood-glucose; Glucose-oxidase; Stopped-flow dialysis 221(1989)205

**Carbon-fibre electrode**

Liquid chrom.; Orcinol, Dihydroxynaphthalene 235(1990)273

**Carbonate rocks**

At. abs. spectrometry; Electrotherm. atomization; Calcium carbonate scale; Copper; Solid samples 209(1988)287

**Carboxyl groups**

Spectrophotometry; Polymers 219(1989)161

**Carboxylic acids**

Fluorimetry; H.p.l.c.; Amino acids; Peptides; Laser-induced, Selective derivatization 205(1988)15

Flow system; Spectrophotometry; Food; Soil; Citric acid 221(1989)19

Autoprotolysis constants; Dimethylformamide; Solvent effect 228(1990)301

Liquid chrom.; Micelle; Partition coefficient; Ion-exclusion 230(1990)9

Gas chromatography; Waters; Nitrogen-selective detection, 2-Nitrophenylhydrazides 237(1990)215

Liquid chrom.; Wine; Optimization; Derivatization 242(1990)25

Chemiluminescence; Luminol; Peroxyoxalate; Polyaromatic hydrocarbons 250(1991)145

**Carboxylic acids, short chain**

Gas chromatography; Mass spectrometry; Feces; Ion-trap detector 247(1991)223

**Carboxylic resin**

Ion exchange; Cation affinity; Phosphinic resin; Sulphonic resin 225(1989)323

**Carnitine**

Amperometry; Bienzyme electrode 208(1988)295

**Carriers**

Analyte recognition; Enzymes; Molecular interaction; Optical sensing; Transduction 250(1991)181

**Catalysis**

Spectrophotometry; Selenium; Resazurin reduction, Sulphide 232(1990)351

**Catalysts**

Spectrophotometry; Extraction; Rhenium; Microcrystalline benzophenone 204(1988)359

X-ray fluore. spectrometry; Platinum; Comparison 209(1988)185

Flow system; Spectrophotometry; Dental alloys; Palladium 214(1988)271

Flow system; Kinetic analysis; Spectrophotometry; Reserpine; Manganese; Continuous-flow analysis, Manganese oxide reactor 233(1990)235

At. abs. spectrometry; Flame; Iron; Nickel; Cobalt; Molybdenum; Petroleum; Microwave oven digestion, Slurry 235(1990)405

At. abs. spectrometry; Flow system; Mercury; Copper salts, Cadmium salts, Continuous microflow, Cold vapour 243(1991)247

**Catalytic end-point detection**

Titrimetry; Kinetic analysis; Review 202(1987)1

Titrimetry; Chromium; Compleximetric 203(1987)91

**Catechin**

Liquid chrom.; Copper; Flavonoids; Electrochemical detection 232(1990)377

**Catechol**

Amperometry; Enzyme electrode; Biosensor; Eggplant; Bi-amperometric, Carbon paste electrode, Polyphenol oxidases 237(1990)107

**Catechol compounds**

Voltammetry; Stripping, Adsorptive accumulation 215(1988)29

**Catechol electrode**

Amperometry; Spinach leaves, Oxygen electrode 208(1988)287

**Catecholamines**

Fluorimetry; 1,2-Diarylethylenediamines 208(1988)59

H.p.l.c.; Urine; On-line purification 218(1989)119

Voltammetry; Biosensors; Enzyme reactor; Indoleamines; Ion-selective electrodes; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

**Cathodic stripping**

Voltammetry; Selenium; Sea water; Waters; Copper 231(1990)221

Voltammetry; Ultramicroelectrodes; Fast scan, Mercury hemispherical electrode, Silver disk electrode, Copper amalgam film electrode 239(1990)35

**Cation affinity**

Ion exchange; Carboxylic resin; Phosphinic resin; Sulphonic resin 225(1989)323

**Cation affinity series**

Ion exchange; Phosphonic acid resin 209(1988)363

**Cation selectivity of crown ethers**

Potentiometry; 13-Crown-4 and bis(13-crown-4) derivatives 215(1988)289

**Cationic detergent**

Multivariate calibration; Tensammetry 223(1989)387

**Cationic surfactants**

At. abs. spectrometry; Flow system; Extraction; Waters; Indirect, With tetrathiocyanatocobaltate 215(1988)233

**Caustic scrubbing liquor**

Spectrophotometry; Mercaptan; Sulphide; Simultaneous determination 226(1989)165

**Celipitium**

Cyclic voltammetry; Diff. pulse polarography; Pharmaceuticals; Carbon paste electrode; Lipid modification 236(1990)299

**Cell cultivation**

Flow system; Amperometry; Enzyme cartridge; Glucose; Lactate 225(1989)253

**Cell permeabilization**

Flow system; Fluorimetry; Formate dehydrogenase activity; Intracellular enzyme activity; Yeast cells; *Candida boidinii* 248(1991)371

**Cells**

Fluorimetry; Metabolism; Methylumbelliferylxyloside 227(1989)273

Spectrophotometry; Flow system; Polyamines; Amine oxidases; Enzyme reactor; Immobilized, Hydrogen peroxide, Sepharose 237(1990)391

**Cellulose membranes**

Enzyme reactor; Blood; Plasma; Glucose; Dialysis cell, NADH, Haematocrit 231(1990)165

**Cellulose sorbent**

At. abs. spectrometry; Copper; Preconcentration; Quinolinol 230(1990)163

**Centrifugal partition chromatography**

Liquid chrom.; Droplet countercurrent chromatography; Natural products 236(1990)63

**Cephalexin**

Kinetic analysis; Potentiometry; Cetyltrimethylammonium bromide; Pharmaceuticals; Sulphamethizole; Micellar catalysis 219(1989)295

**Cephalosporin C**

Flow system; Biosensor; Field effect transistor; Glucose; Urea; Penicillin; Process analysis 238(1990)201

**Ceramics**

Superconductors; Oxygen valence, Quantum-field model 233(1990)155

**Cerium**

Ozone generation; Oxidation reactions; Foam flotation-separation; Mini ozonizer 238(1990)427

**Certification of reference material**

Serum; Trace elements; Freeze-dried human 204(1988)63

**Cetyltrimethylammonium bromide**

Kinetic analysis; Potentiometry; Cephalexin; Pharmaceuticals; Sulphamethizole; Micellar catalysis 219(1989)295

Chemiluminescence; Glucose oxidase; Hydrogen peroxide; Luminol; Micelle; Sensor 221(1989)11

**Chalcogenide**

I.r. spectrometry; Fourier transform; Fibres; Surface modification 240(1990)125

**Characterization of stationary/mobile phases**

H.p.l.c.; Reversed-phase retention; Using markers 212(1988)95

**Charge exchange**

Mass spectrometry; Air; Benzene; Chloroethyl ethyl sulphide; Low-level air pollutants 245(1991)267

**Chelating resin**

Ion exchange; Amidoxime; Holmium; Neodymium 221(1989)325

Amperometry; Modified electrode; Preconcentration; Silver; Carbon paste electrode 229(1990)213

Rhodium; Iridium; Poly(vinylidene)triethylamine 245(1991)13

**Chelation**

Liquid chrom.; Bromopyridylazodiethylaminophenol; Mineral sample; Transition metal; Water 230(1990)73

**Chemical engineering data base**

Phase diagrams 210(1988)115

System architecture 210(1988)181

**Chemical information systems**

I.r. spectrometry; High-speed data-management 210(1988)73

**Chemical oscillator**

Enzyme analysis; Peroxidase-oxidase, Period doubling 237(1990)381

**Chemical reagents**

Spectrophotometry; Manganese; Plants 204(1988)355

**Chemical sensor testing**

Flow system; Potentiometry; Urease sensor; On-line analysis 204(1988)7

**Chemical sensors**

Flow system; Capillary suction pump 209(1988)57

**Chemical shift**

N.m.r. spectrometry; Computer 229(1990)17

N.m.r. spectrometry; Computer program 242(1991)43

**Chemical shift prediction**

N.m.r. spectrometry; Hybridized carbon atoms 248(1991)415

**Chemical substructures**

Data-base searching; Parallel hardware, Protein data bank 235(1990)77

Data-base searching; Beilstein, Comparison of systems 235(1990)87

**Chemically modified electrodes**

Flow system; Amperometry; Electrochemical detection 234(1989)41

Amperometry; Flow system; Carbohydrates; Nickel, Glassy carbon 243(1991)61

Amperometry; Sulphydryl compounds; Rotating graphite electrodes, Electrocatalytic oxidation 243(1991)287

Amperometry; Flow system; Biosensors; Enzyme reactor; Immobilized, Selective detection 250(1991)203

**Chemically modified silica**

Liquid chrom.; Dialkylthiocarbamate; Enrichment 225(1989)303

**Chemically sterilizable barrier**

Flow system; Amperometry; Fermentor monitoring; Glucose; Oxygen 216(1989)299

**Chemicals**

Anod. stripping voltammetry; Silver; Nafion/crown ether film electrode 212(1988)341

**Chemometric program**

Expert system 210(1988)33

**Chemometrics**

Principal components; Cluster analysis; Ethanol; Partial least squares; Solvent identification; Tin oxide thin-film sensor array 250(1991)257

**Chemoreceptors**

Potentiometry; Biosensors; Trimethylamine oxide; Crab antennular receptrodes; Hawaiian crabs 243(1991)157

**Chinese hamster**

Fluorimetry; Fluoronitro benzoxadiazole; Ovary cell; Phthalaldehyde 223(1989)299

**Chiral derivatization**

Liquid chrom.; Amino acids; Carbodiimides; Ivory identification; 2-*N*-benzyloxycarbonylamino acids, *N,N'*-Bis[(*S*)-1-phenylethyl]carbodiimide 239(1990)297

**Chiral organic anion extractants**

Spectrophotometry; Cinchona alkaloids; Extraction; Ion-pair 215(1988)119

**Chiral separation**

Liquid chrom.; Amino acids; Glutamic acid; Enantiomer separation; Chiral stationary phase, Cyclodextrin, Phthalaldehyde derivatization 234(1990)127

Chromatography; Optical purity; Micellar electrokinetic chromatography; Trimetoquinol hydrochloride; Laudanosine, Norlaudanosine, Laudanosine, Sodium taurodeoxycholate 236(1990)281

**Chiral stationary phase**

Gas chromatography; Enantiomers; Cyclodextrins 234(1990)365

**Chirality**

Metal chelate; Solvent extraction 221(1989)179

**Chloramines**

Spectrophotometry; Chlorine; Ultraviolet absorption spectra; In carbon tetrachloride 209(1988)321

Spectrophotometry; Alkylchloramines 231(1990)161

Liquid chrom.; Amperometry; Waters; Glassy carbon electrode 237(1989)149

**Chloramphenicol**

Gas chromatography; Mass spectrometry; Urine; Eggs; Biological materials; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61

**Chlorate**

Flow system; Spectrophotometry; Chlorite 225(1989)437

**Chlordiazepoxide**

Voltammetry; Serum; Adsorptive stripping, Hanging mercury drop electrode 201(1987)275

**Chlordiazepoxide hydrochloride**

Fluorimetry; Aminochlorobenzophenone 227(1989)309

**Chloride**

Flow system; Spectrophotometry; Detection limit 214(1988)447

Spectrophotometry; Flow system; Bromide; Waters; Mercury(II) and silver thiocyanate minicolumns 245(1991)115

Potentiometry; Ion-selective electrodes; Nitrate; Waters; Remote analysis station, Coated-wire 248(1991)285

**Chlorinated pesticides**

Raman spectrometry; Surface-enhanced 206(1988)333

**Chlorinated phenoxy acids**

Flow system; Liquid chrom.; Spectrophotometry; Mass spectrometry; Extraction; Organic pollutants; Pesticides; Waters; On-line continuous-flow, Organophosphorus 234(1990)119

**Chlorine**

Flow system; Spectrophotometry; Waters; Residual 208(1988)317

Spectrophotometry; Chloramines; Ultraviolet absorption spectra; In carbon tetrachloride 209(1988)321

Potentiometry; Flow system; Waters 214(1988)349

Polarography; Phenylthiourea solutions; Waters; Linear-sweep, Active 215(1988)37

Kinetic analysis; Flow system; Oxychlorine 224(1989)383

Chemiluminescence; Ion exchange; Waters; Uranine; Tap, Amberlite anion-exchange resin, Chloramines, Immobilized, Xanthene dye 231(1990)7

Spectrophotometry; Diffuse reflectance; Optical fibre sensor; *o*-Toluidine, Nylon strip, Dry reagent 244(1991)71

Cyclic voltammetry; Microelectrodes; Waters; Platinum microdisc, Gold microdisc and microband 246(1991)267

Flow system; Amperometry; Potentiometry; Air; Gas detection; Hydrogen chloride; Continuous monitoring 248(1991)391

**Chlorine dioxide**

Amperometry; Cyclic voltammetry; Pulp bleaching; Paper; Process analysis; In-line monitoring 238(1990)223

**Chlorine species**

Spectrophotometry; Free chlorine; Acid Yellow 17, *N,N*-Diethyl-*p*-phenylenediamine, Leuco crystal violet 249(1991)519

**Chlorite**

Diff. pulse polarography; Waters 204(1988)169

Flow system; Spectrophotometry; Chlorate 225(1989)437

Amperometry; Water; Continuous determination 226(1989)121

**Chloroacetaldehyde**

Fluorimetry; Liquid chrom.; Adenine derivative; Chlorofluorobenzyladenine; Plasma 227(1989)189

**Chlorobenzenesulphonic acid**

I.r. spectrometry; Waters 219(1989)165

**Chloroethyl ethyl sulphide**

Mass spectrometry; Air; Benzene; Charge exchange; Low-level air pollutants 245(1991)267

**Chlorofluorobenzyladenine**

Fluorimetry; Liquid chrom.; Adenine derivative; Chloroacetaldehyde; Plasma 227(1989)189

**Chloroform**

Voltammetry; Cresol; Enzyme electrode; Waters 213(1988)113

Flow system; Mass spectrometry; Arsenic; Sample introduction 214(1988)385

**Chloroplast membranes**

Amperometry; Biosensors; Phytotoxicity; Thylakoid membranes; Waters; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55

**Chloroquine**

Fluorimetry; Extraction; Plasma 206(1988)339

Liquid chrom.; Calcium channel; Plasma 228(1990)155

**Chlorotriazine**

I.r. spectrometry; Spectrophotometry; Immobilization; Silica gel; Trihydroxyazobenzene; Diffuse-reflectance 228(1990)235

**Chlorotriazine pesticides**

Gas chromatography; Mass spectrometry; Organophosphorus pesticides; Pesticides; Soils 243(1991)259

**Cholesterol**

Flow system; Amperometry; Enzyme reactor; Serum 207(1988)319

Amperometry; Enzyme electrodes; Lactate; Pyruvate; Uric acid; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85

**Choline**

Flow system; Amperometry; Ion exchange; Acetylcholine; Enzyme reactor; Lipids 214(1988)173

Amperometry; Acetylcholine; Acetylcholinesterase; Choline oxidase; Sensor; Photocross-linkable polymer 228(1990)49

Amperometry; Biosensor; Enzyme reactor; Acetylcholine; Immobilized, Hydrogen peroxide 231(1990)27

**Choline acetyltransferase**

Chemiluminescence; Immunoassay; Tissue extracts 205(1988)183

**Choline oxidase**

Amperometry; Acetylcholine; Acetylcholinesterase; Choline; Sensor; Photocross-linkable polymer 228(1990)49

**Choline-sensitive membrane electrode**

Potentiometry; Phosphatidylcholine; Serum 217(1989)193

**Cholinergic agents**

Acetylcholine receptor based biosensor 213(1988)131

**Chromatography, peak noise**

Chromatography; Signal/noise enhancement; Matched filtering; Theory 235(1990)343

Chromatography; Signal/noise enhancement; Matched filtering; Program and simulation 235(1990)355

**Chromium**

Titrimetry; Catalytic end-point detection; Compleximetric 203(1987)91

Spectrophotometry; Hydrogen peroxide interference, Diphenylcarbazine 209(1988)315

Macroporous resin; Preconcentration; Quinolinol; Sea water 224(1989)55

Flow system; Chemiluminescence; Flavin mononucleotide; Cationic micellar surfactant modifier, Hydrogen peroxide 232(1990)385

Emission spectrometry; Plasma; Inductively coupled, Simultaneous trace element determination 233(1990)243

Activ. analysis; Fulvic acids; Waters; Gamma counting 236(1990)357

Potentiometry; Titrimetry; Steel; High-alloy, Reference method, Dissolution 236(1990)399

Flow system; At. abs. spectrometry; Preconcentration; Poly(hydroxamic acid) resin 236(1990)469

Liquid chrom.; Rare earth elements; Thorium; Ores; Ion pairing, Complexes, Precolumn derivatization 237(1990)311

Ion exchange; At. abs. spectrometry; Waters; Preconcentration 238(1990)273

Spectrophotometry; Galacturonic acid; Reduction, Complexes, Stability constants 248(1991)301

**Chromium speciation**

Chemiluminescence; Kinetic analysis; Carboxylate ligands, Humic acid 206(1988)263

**Chromogenic reagents**

Spectrophotometry; Rare earth elements; Ill-conditioned system calibration; Calibration 234(1990)483

**Chronoamperometry**

Cyclic voltammetry; Lead; Carbon fibre electrodes 212(1988)331

Digital simulation; Chronopotentiometry; Saul'yev methods, Boundary conditions 239(1990)87

**Chronocoulometry**

Cyclic voltammetry; Diff. pulse voltammetry; Coulometry; Azidothymidine; Reduction mechanism, Electrode fouling 248(1991)399

**Chronopotentiometry**

Potentiometry; Knowledge-based system; Elucidation of electrode reaction mechanisms 211(1988)61

Digital simulation; Chronoamperometry; Saul'yev methods, Boundary conditions 239(1990)87

**Chymotrypsin**

Molecular recognition; Electrostatic features, Cyclic urea mimics 210(1988)151

**Cigarettes**

Gas chromatography; Tobacco smoke; Alkanes, Hydrocarbons, Particulate matter 236(1990)213

**Cinchona alkaloids**

Spectrophotometry; Chiral organic anion extractants; Extraction; Ion-pair 215(1988)119

Extraction; Usnic acid optical isomers, Metal complexes 248(1991)501

**Circular dichroism spectroscopy**

Lanthanide complexation; Erbium; Polyimide film; Factor analysis; Kalman filter 246(1991)1

**Cisplatin**

Fluorimetry; Adriamycin; Binding; Tumorigenic cells; Terbium luminescence 205(1988)77

**Citric acid**

Ion exchange; Dissociation constant; Ternary system 222(1989)189

Gas chromatography; Isocitric acid; Malic acid; Fruit juice; Lemon juice; Adulteration, Acyl esters 239(1990)165

**Classification**

Pattern recognition; Supervised technique; Sample size 223(1989)19

**Climbazol**

Liquid chrom.; Shampoo; Cosmetics; Preservative 235(1990)465

**Clinical analysis**

Mass spectrometry; Trace metals; Isotopes; Fast atom bombardment, Monohydride formation 241(1990)249

**Clinical data validity**

Process control characteristics; Model 211(1988)43

**Clinical test devices**

Immunoassay; Disposable analytical devices; Printed liquidic circuits; Switch devices 249(1991)263

**Clonazepam**

Raman spectrometry; I.r. spectrometry; Benzodiazepines; Nitrazepam; Nimetazepam; Flunitrazepam; Fourier transform 240(1991)287

**Clostridiopeptidase A**

Spectrophotometry; Collagenase; Enzyme amplification; Solid-supported, Single-enzyme, Multi-enzyme 232(1990)273

**Cloxacillin**

Spectrophotometry; Ampicillin; Derivative spectroscopy; Pharmaceuticals 209(1988)175

**Cluster analysis**

Odour quality; Semantic description 239(1990)73

Principal components; Chemometrics; Ethanol; Partial least squares; Solvent identification; Tin oxide thin-film sensor array 250(1991)257

**Coal**

Potentiometry; H.p.l.c.; Fluorine; Minerals; Pyrohydrolysis 202(1987)61

**Coal ash**

X-ray fluoro. spectrometry; Ion exchange; Leach liquors 220(1989)217

**Coal fly ash**

At. abs. spectrometry; Mercury; Gold amalgamation, Cold vapour 243(1991)71

At. abs. spectrometry; Selenium; Graphite furnace, Cadmium-palladium chemical modifier 247(1991)19

**Coal washing water**

Fluorimetry; Liquid chrom.; Solubilization; Benzo[a]pyrene; Polynuclear aromatic hydrocarbons 243(1991)115

**Coated-wire electrodes**

Potentiometry; Titrimetry; Palladium halide complex; PVC membrane, Aluminium 209(1988)357

Potentiometry; Acetylcholine; Biosensor; Enzyme electrodes; Immobilized, Hydrogen ion-selective electrode 236(1990)441

Potentiometry; Charge carrier, Ferrocene, Response time, Selectivity 236(1990)445

Cyclic voltammetry; pH sensor; Waters; Chemically modified electrode, Poly(4,4'-diaminobiphenyl) 244(1991)165

Potentiometry; Polarography; Cadmium; Ion-selective electrodes; Neutral carrier, 4,4'-di(5-nonyl)-2,2'-bipyridine, Selectivity coefficients 248(1991)315

**Cobalt**

Anod. stripping voltammetry; Cadmium; Copper; Lead; Nickel; Waters; Differential-pulse 204(1988)179

Voltammetry; Plants; Adsorption stripping 207(1988)103

Flow system; Kinetic analysis; Waters; In-line preconcentration 207(1988)331

Flow system; Potentiometry; Nickel; Constant-current stripping, Carbon fibre electrodes 208(1988)237

Ion exchange; At. abs. spectrometry; Copper; Manganese; Nickel; Tellurium metal 212(1988)191

Kinetic analysis; Spectrophotometry; Nickel; Resolution of binary mixtures; Interpolation 212(1988)223

H.p.l.c.; Chemiluminescence; Rice flour 217(1989)157

At. abs. spectrometry; Electrotherm. atomization; Iron; Nickel; Molybdenum tube 217(1989)377

Chemiluminescence; Ion exchange; Liquid chrom.; Ion chromatography 221(1989)249

Flow system; Spectrophotometry; Ethylenebis(triphenylphosphonium) cation; Extraction 225(1989)123

Voltammetry; Surfactant; Mercury electrode 228(1990)55

Spectrophotometry; Multi-component analysis; Quinolinol 230(1990)221

At. abs. spectrometry; Extraction; Metal ions; Nickel; Zinc; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

At. abs. spectrometry; Preconcentration; Extraction; Liquid surfactant membranes; Graphite furnace, Liquid-liquid 232(1990)389



At. abs. spectrometry; Flame; Iron; Nickel; Molybdenum; Catalysts; Petroleum; Microwave oven digestion, Slurry 235 (1990)405

Chromatography; Chemiluminescence; Flow system; Copper; Iron; Ion chromatography, Cation-exchange column 236 (1990)287

Voltammetry; Derivative adsorption 236(1990)453

At. abs. spectrometry; Aluminium alloys; Steels; Preconcentration; Tetradecyldimethylbenzylammonium thiocyanate adsorbent, Naphthalene support, Nitroso-R salt 237(1990)201

Spectrophotometry; Derivative spectroscopy; Complexation; Nitropyridylhydrazones 244(1991)223

Polarography; Reduction mechanism; Malonate complexes, Succinate complexes 248(1991)409

Activ. analysis; At. abs. spectrometry; Cadmium; Copper; Mercury; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

### **Cobalt phthalocyanine**

Gas chromatography; Barium sulphophthalocyanines; Polycyclic aromatic hydrocarbon; Adsorption, Thermal desorption 224(1989)1

Potentiometry; Phosphate; Poly(vinyl chloride); Coated-wire/field-effect transistor 224(1989)145

### **Cobalt-ammonia complexes**

Polarography; Dropping mercury electrode; Reduction mechanism; Stability constants 231(1990)143

### **Cocoa beans**

Spectrophotometry; Theobromine; Caffeine; Chloroform extraction 232(1990)409

### **Collaborative studies**

Titrimetry; Boron preservatives; Wood; Statistical analysis; Quality control; Boric acid 236(1990)423

### **Collagenase**

Spectrophotometry; Clostridiopeptidase A; Enzyme amplification; Solid-supported, Single-enzyme, Multi-enzyme 232 (1990)273

### **Collision-activated dissociation**

Mass spectrometry; Sustained off-resonance irradiation, Fourier transform, Infrared multiphoton dissociation 246 (1991)211

### **Collision-induced dissociation**

Mass spectrometry; Ethylguanine isomers; Laser desorption; Fourier transform 247(1991)235

### **Colloid**

Copper; Iron; River water 227(1989)421

### **Colloidal electrolytes**

Amperometry; Titrimetry; Polarography; Dodecylquinolinium bromide; Potassium dichromate, Potassium hexacyanoferrate(III), Ammonium molybdate 236(1990)325

### **Colour changes of indicators**

Spectrophotometry; Computer program 204(1988)311

### **Column dead time**

Gas chromatography; Capillary 215(1988)311

### **Combustion**

Mass spectrometry; Elemental analysis; Nitrogen 226(1989)345

Flow system; Conductometry; Organohalogens; Preconcentration; Air 241(1990)71

### **Compatibility**

Pattern recognition; Eigenvector; Triterpane; Oil 223(1989)45

### **Competitive binding**

Kinetic analysis; Spectrophotometry; Riboflavin; Urine; Homogeneous enzyme-linked 208(1988)31

Kinetic analysis; Spectrophotometry; Biotin; Vitamin tablets; Homogeneous enzyme-linked 208(1988)43

Liquid chrom.; Biotin; Biocytin; Vitamins; Fluorimetric detection 246(1991)103

### **Competitive equilibrium constants**

N.m.r. spectrometry 220(1989)171

### **Complexants**

Voltammetry; D.c. polarography; Fulvic acids; Metal-fulvic complexes; Diffusion coefficient, Distribution function 232 (1990)209

Fulvic acids; Metal-fulvic complexes; Buffering action, Background sites 232(1990)225

### **Complexation**

Polarography; Tin; Dimethylformamide; Acetonitrile; Free energy of transfer, Stability constants 242(1991)295

Spectrophotometry; Cobalt; Derivative spectroscopy; Nitropyridylhydrazones 244(1991)223

Ion exchange; Copper; Humic acids; Peat, Functional groups, Sulphopropyl-Sephadex C-25 cation exchanger 244(1991)281

### **Complexation equilibria**

Equilibria; Predominance-zone diagrams; Multiconditional constants 246(1991)435

### **Complexation in natural waters**

Titrimetry; Voltammetry; Computer simulation of errors; Waters; Stripping 212(1988)1

### **Component number**

Gas chromatography; Camomile extract; Capillary, Statistical estimation 212(1988)165

### **Component reconstruction**

Gas chromatography; Mass spectrometry; Alternating regression; Spectral primary space 250(1991)169

### **Composites**

I.r. spectrometry; Dielectric constant; Bismuth; Two-phase, Topology 240(1990)173

### **Computer**

Laboratory information management system 223(1989)205

Algorithm; Extraction; Silver nitrate 228(1990)229

N.m.r. spectrometry; Chemical shift 229(1990)17



Voltammetry; Kinetics; Cadmium-EDTA 248(1991)77

### Computer prediction

N.m.r. spectrometry; Acyclic hydrocarbons;  $^{13}\text{C}$  chemical shifts, Microcomputer program, Beierbeck-Saunders approach 233(1990)315

### Computer program

Spectrophotometry; Colour changes of indicators 204(1988)311  
Structure determination; X-ray absorption fine-structure; Atomic local structure 210(1988)143

Hydrogenation of acetylene; Molecular orbital, Tetrahydroborate; Geometry optimization 210(1988)219

Potentiometry; Titrimetry; Thermom. analysis 222(1989)385

Spectrophotometry; LESSDAD, Least squares 234(1990)381

Spectrophotometry; Copper; Alkanohydroxamic acids; LESSDAD, Least squares 234(1990)387

Mass spectrometry; Structure determination; Protein; Peptides; Antibiotics; MASSPEC, Graphics-based data system 237(1990)459

N.m.r. spectrometry; Line shapes 239(1990)157

Modelling; XYZ program, Graphic display 239(1990)311

Calibration; Polynomial curve-fitting; STATCAL-CALIBRA 241(1990)1

N.m.r. spectrometry; Spectral assignment 242(1991)37

N.m.r. spectrometry; Chemical shift 242(1991)43

### Computer simulation

N.m.r. spectrometry; Contrast agents; Plasma; NMR imaging, Diethylenetriaminepentaacetic acid complexes, Equilibria 233(1990)85

Voltammetry; Waters; Copper; Speciation; Conditional stability constant, Cathodic stripping, Sea water, Estuarine water, Freshwater, Complexation 235(1990)287

Flow system; Spectrophotometry; Error analysis; Signal processing; Iron(II)-*o*-phenanthroline, Azo dye 235(1990)337

At. abs. spectrometry; Liquid chrom.; Optical activity; Jones and Mueller calculus, Scientific block diagram program 246(1991)9

### Computer simulation of errors

Titrimetry; Voltammetry; Complexation in natural waters; Waters; Stripping 212(1988)1

### Computer technology

Simulation, Optimization, Control 210(1988)109

### Computer-aided

N.m.r. spectrometry; Carbon-13 nuclear magnetic resonance; Terpenoid identification; Natural products 236(1990)501

### Computer-aided molecular design

New system 217(1989)61

### Computer-aided process design

Review 210(1988)97

### Computer-aided recognition structures

N.m.r. spectrometry; Chemical shift, Charge density, Carbon-13 209(1988)29

### Computer-assisted interpretation of spectra

I.r. spectrometry; Knowledge-based system; Descriptive, Interactive 217(1989)203

I.r. spectrometry; Review; Automated spectral interpretation; Structure determination; Knowledge-based system; Library search, Pattern recognition 240(1990)3

### Computer-assisted problem solving

Organic synthesis design; Combinatorial flood, Formal restraint methods 235(1990)155

### Computer-assisted search for pesticides

Hidden classes, Activities 210(1988)135

### Computer-assisted solution of problems

Chemical structures, Reactions, Bilateral approach 210(1988)123

### Computer-assisted spectral simulation

N.m.r. spectrometry; Isoquinolines; Quinolines; Models, Library searches, Multiple linear regression 248(1991)183

### Computer-assisted structure elucidation

N.m.r. spectrometry; Correlations, Carbon-13 210(1988)163

### Computer-based structure characterization

N.m.r. spectrometry 216(1989)57

### Computer-calculated extraction curves

Extraction; Ion pairs; Extraction constants, Dissociation constants 248(1991)473

Extraction; Ion pairs; Extraction constants, Dissociation constants 248(1991)483

### Computer-controlled apparatus

Flow system; Kinetic analysis; Liquid chrom.; Enzyme reactions; Protein; Stopped-flow 220(1989)13

### Computer-controlled rapid-scanning echelle monochromator

Emission spectrometry; Plasmas; Sediments; Soils; Trace elements; Inductively-coupled 207(1988)269

### Computer-stored spectra

N.m.r. spectrometry; One-bit quantization 209(1988)271

### Computerised array

Conductometry; Acetic acid; Acetone; Ethanol; Semiconductor gas sensors 219(1989)213

### Computerised data acquisition

Flow system; Potentiometry; Multi-ion sensor cell 214(1988)359

### Computerised data acquisition and processing

Fluorimetry; Shpol'skii technique; Polynuclear aromatic hydrocarbons 233(1990)207

### Computerised establishment of multivariate functions

Multivariate functions; QQN series software 234(1990)493

**Computerised instrument**

Potentiometry; Fluoride selective electrode; Waters; Battery-powered, Field-based, Metal-oxide semiconductor 208(1988)195

**Computerised peak resolution**

Liquid chrom.; Time-domain differentiation; Propyl gallate; Butylhydroquinone; Antioxidants; Foods 234(1990)263

**Computerised system**

Voltammetry; Potentiometry; Nickel; Chronopotentiometric experiments 219(1989)105

**Concentration cell**

Potentiometry; Copper; Copper selenide membrane 203(1987)79

Potentiometry; Fluoride; Standard addition 225(1989)97

**Concentration profile measurements**

Gas chromatography; Distillation column control; Process analysis; Parameter estimation, Water-methanol-isopropanol 238(1990)139

**Condensed-phase**

I.r. spectrometry; Knowledge-based system 227(1989)343

I.r. spectrometry; Knowledge-based system 227(1989)359

**Conducting organic salt**

Amperometry; Flow system; Glucose; Sensor; Wall-jet cell 229(1990)83

**Conductivity**

Ion exchange; Chromatography; Inorganic anions; Waters; Cu(II)-containing poly(3-methylthiophene) electrode, Single column 237(1990)317

**Configurations**

N.m.r. spectrometry; Pheromones; Dienes; Fuzzy classification;  $^{13}\text{C}$  chemical shifts 233(1990)223

**Conformational analysis**

Polymeric materials; Structure/activity relations 235(1990)229

**Contamination**

Isotope dilut. analysis; Nitrogen; Soil; Extraction, Distillation, Drying 245(1991)49

**Continuous addition of reagent technique**

Spectrophotometry; Differential reaction-rate methods; Copper; Iron; Serum; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

**Continuum resonance Raman scattering**

Raman spectrometry; Diatomic molecules; Halogens; Unimolecular dissociation 240(1990)119

**Continuum-source**

At. abs. spectrometry; Inductively coupled plasma, Photodiode array 227(1989)331

**Contrast agents**

N.m.r. spectrometry; Computer simulation; Plasma; NMR imaging, Diethylenetriaminepentaacetic acid complexes, Equilibria 233(1990)85

**Control chart**

Potentiometry; Gas-sensor; Semiconductor 225(1989)89

**Controlled potential electrolysis**

Diff. pulse polarography; D.c. polarography; Voltammetry; Potentiometry; Aziridinylquinones; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

**Controlled-pore glass**

Flow system; Spectrophotometry; Malate dehydrogenase 221(1989)337

**Coordination number**

Mixed-ligand complexes; Metal complexes 238(1990)393

**Copper**

Flow system; Spectrophotometry; Microemulsions 201(1987)345

Potentiometry; Bismuth; Mercury; Urine; Constant-current stripping, Gold fibre electrode 202(1987)117

Anod. stripping voltammetry; Zinc; Intermetallic compounds 202(1987)151

Electrotherm. atomization; At. abs. spectrometry; Coprecipitation/preconcentration; Manganese; Waters 202(1987)223

Potentiometry; Concentration cell; Copper selenide membrane 203(1987)79

Anod. stripping voltammetry; Cadmium; Cobalt; Lead; Nickel; Waters; Differential-pulse 204(1988)179

Extraction; Spline functions; Surface excess isotherm 206(1988)215

Electrotherm. atomization; At. abs. spectrometry; Sea water; Zinc; Polymer-supported 1,4,8,11-tetraazacyclotetradecane 209(1988)249

Electrotherm. atomization; At. abs. spectrometry; Bismuth metal; Extraction; Zinc; Thiocyanate 209(1988)281

At. abs. spectrometry; Electrotherm. atomization; Calcium carbonate scale; Carbonate rocks; Solid samples 209(1988)287

Electroluminescence; Cathodic 211(1988)105

Anod. stripping voltammetry; Fulvic acid equilibria; Labile metal fraction; Lead; Sampled-d.c. 211(1988)141

Ion exchange; At. abs. spectrometry; Cobalt; Manganese; Nickel; Tellurium metal 212(1988)191

Flow system; Spectrophotometry; Wave-guide capillary cell 212(1988)245

Spectrophotometry; Titrimetry; Antipyrinylazo and thiazolylazo compounds; Bismuth; Synthesis 212(1988)253

Spectrophotometry; Flow system; Ion exchange; Integrated reaction, Unsegmented 214(1988)217

Anod. stripping voltammetry; Cadmium; Internal standard; Lead; Waters; High-accuracy, Differential-pulse, Indium 215(1988)21

Diff. pulse voltammetry; Anaerobic adhesive; Iron; Glassy carbon electrode 217(1989)335

Electrotherm. atomization; At. abs. spectrometry; Environmental samples; Extraction; Lead 218(1989)173

Emission spectrometry; Barium; Superconductor; Yttrium; Inductively coupled plasma 221(1989)167

Anod. stripping voltammetry; Lead; Potentiometric stripping analysis 222(1989)263

Principal components; Spectrophotometry; Titrimetry; Ethanolamine; Salicylate 223(1989)257

Colloid; Iron; River water 227(1989)421

Flow system; Amperometry 228(1990)117

Spectrophotometry; Kinetic analysis; Hydroxybenzaldehyde azine 229(1990)107

Polarography; Boiler water; Dimethyl aminopropanol; Volatile amine 229(1990)149

Voltammetry; Phenanthroline; Mercury electrode 230(1990)83

At. abs. spectrometry; Cellulose sorbent; Preconcentration; Quinolol 230(1990)163

Anod. stripping voltammetry; Diff. pulse voltammetry; Ion exchange; Lead 231(1990)133

Potentiometry; Ion-selective electrodes; Iodide; Silver sulphide-based 231(1990)137

Voltammetry; Waters; Sea water; Complexation, Organic ligands, Speciation, Detection window 232(1990)149

Liquid chrom.; Waters; Sea water; Phytoplankton bloom; Plankton ecosystem; Metal-organic interactions 232(1990)161

Fulvic acids; Humic substances; Iron; Ultrafiltration; Metal-humate interactions 232(1990)171

Liquid chrom.; Catechin; Flavonoids; Electrochemical detection 232(1990)377

Chromatography; Spectrophotometry; Zinc; Cadmium; Preconcentration; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393

Spectrophotometry; Alkanohydroxamic acids; Computer program; LESSDAD, Least squares 234(1990)387

Liquid chrom.; Amperometry; Spectrophotometry; Iron; Waters; Biological materials; Extraction; Cupferron derivatization 235(1990)279

Voltammetry; Waters; Speciation; Computer simulation; Conditional stability constant, Cathodic stripping, Sea water, Estuarine water, Freshwater, Complexation 235(1990)287

Chromatography; Chemiluminescence; Flow system; Cobalt; Iron; Ion chromatography, Cation-exchange column 236(1990)287

At. abs. spectrometry; Waters; Environmental samples; Lead; Cadmium; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

Anod. stripping voltammetry; Haemodialysis water 236(1990)449

Spectrophotometry; Tetrathio ethers, cyclic; Extraction; Liquid-liquid 237(1990)245

Anod. stripping voltammetry; Diff. pulse voltammetry; Mercury electrodes; Polymer modified electrodes; Lead; Cadmium 238(1990)345

Polarography; Hair; Zinc; Lead; UV irradiation, Polarographic adsorptive complex waves 238(1990)367

Spectrophotometry; Continuous addition of reagent technique; Differential reaction-rate methods; Iron; Serum; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

D.c. polarography; Diff. pulse polarography; Aminomethoxypropane; Dimethylaminoethanol; Waters; Boiler water; Amine complexes, Reduction 239(1990)291

Spectrophotometry; Preconcentration; Trace elements; Reductive matrix precipitation, Copper oxide, Copper thiocyanate 242(1991)99

At. abs. spectrometry; Flow system; Aluminium alloys; Electrolytic dissolution 243(1991)65

Ion exchange; Complexation; Humic acids; Peat, Functional groups, Sulphopropyl-Sephadex C-25 cation exchanger 244(1991)281

Voltammetry; Ethylenediamine; Sea water; Rotating mercury film electrode 245(1991)177

Flow system; Extraction; Segmenter; Continuous flow, Dual channel 245(1991)251

Extraction; Liquid-liquid, Cyclic and acyclic thioethers 248(1991)511

Ion exchange; Chromatography; Palladium; Base metals 248(1991)535

Diff. pulse voltammetry; Gold; Reactor moderator water; Silver; Mercury; Waters 249(1991)447

Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Mercury; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

### **Copper chelates**

Spectrophotometry; Formation constants; Stereoselective adduct formation,  $\alpha$ -Acylcamphorato chelates, Chiral Lewis bases 244(1991)289

### **Copper complexes**

Spectrophotometry; Optical waveguide; Sensor; Sulphur dioxide 226(1989)153

Anod. stripping voltammetry; Fulvic acids; Humic acids; 1-(2-Pyridylazo)-2-naphthol, 8-Quinolol 248(1991)95

Titrimetry; Algorithm; Factor analysis; Multi-equilibria systems 248(1991)447

### **Copper electrode**

Potentiometry 234(1990)331

### **Copper interactions with ligands**

Potentiometry; Titrimetry; Humic-like substance, Fulvic acids 212(1988)105

### **Copper isotope**

Emission spectrometry; Neutron activation; Dietary copper; Hair; Direct-current argon plasma 225(1989)185

### **Copper oxide**

Extended x-ray absorption fine structure spectrometry; Zinc oxide; Weighting factors 233(1990)229

### **Copper speciation**

Ion exchange; At. abs. spectrometry; Waters 219(1989)1

**Copper-base alloys**

Spectrophotometry; Bismuth; Extraction 211(1988)305

**Copper / flavonoid complexes**

Spectrophotometry; Gel perm. chromatography; Vegetables 203(1987)23

**Copper-mercury film electrode**

Anod. stripping voltammetry; Lead 246(1991)309

**Coprecipitation**

Arsenic speciation; Dibenzylthiocarbamate; Neutron activation 222(1989)159

X-ray fluores. spectrometry; E.s.r.; Manganese; Pore water 222(1989)169

**Coprecipitation / preconcentration**

Electrotherm. atomization; At. abs. spectrometry; Copper; Manganese; Waters 202(1987)223

**Corn**

Liquid chrom.; Gas chromatography; Mass spectrometry; Pesticides; Pyrimidinol 236(1990)173

**Correlation chromatography**

Gas chromatography; Headspace analysis; Ethylene-propylene copolymer; Peak resolution 239(1990)317

**Corrins**

Spectrophotometry; Cyanide; Fibre-optic chemical sensors; Metalloporphyrins 241(1990)119

**Corticosterone**

Flow system; Chemiluminescence; Steroids; Cortisone; Hydrocortisone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

**Cortisone**

Flow system; Chemiluminescence; Steroids; Corticosterone; Hydrocortisone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

**Cosmetics**

Liquid chrom.; Climbazol; Shampoo; Preservative 235(1990)465

**Coumarins**

Fluorimetry; Optical-fibre sensor; Near-infrared semiconductor laser; Second-harmonic emission 209(1988)327

Voltammetry; Micellar and emulsified media 216(1989)231

**Coumarinsulphonyl chloride**

Fluorimetry; Phosphorimetry; Synthesis 227(1989)145

T.l.c.; Fluorimetry; Phosphorimetry; Amino acid; Ion-pair 227(1989)155

**Crab antennular receptrodes**

Potentiometry; Biosensors; Chemoreceptors; Trimethylamine oxide; Hawaiian crabs 243(1991)157

**Creatine**

Flow system; Spectrophotometry; Animal tissues 208(1988)307

**Creatine kinase**

Chemiluminescence; Flow system; Blood; Bioluminescence 227(1989)29

**Creatinine**

Flow system; Reflectance spectrometry; Serum; Gas diffusion 214(1988)147

Potentiometry; Biosensor; Urea; Enzyme field-effect transistor, Ion-selective electrode 221(1989)157

Conductometry; Biosensor; Enzyme reactor; Urea; Asparaginase; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

Fluorimetry; Flow system; Nitrogen compounds; Ammonia; Enzyme reactor; Serum, Amino acids 245(1991)89

**Cresol**

Voltammetry; Chloroform; Enzyme electrode; Waters 213(1988)113

**Critical micelle concentrations**

Flow system; Conductometry; Spectrophotometry; Surfactants; Ionic, Nonionic 209(1988)111

**Crossflow hydrodynamics**

Field-flow fractionation; Retention ratio; Reynolds number, Analyte transport 246(1991)161

**Crown complex**

Alkaline earth metal ion; Extraction 224(1989)47

**Crown ether complexes**

Polarography; Conductometry; Stability constants; Divalent cations 201(1987)117

**Crown ether dyes**

Spectrophotometry; Alkaline earth ions; Extraction; Synthesis 204(1988)113

**Crown ethers**

Spectrophotometry; Thallium 222(1989)215

Flow system; Spectrophotometry; Extraction; Lead; Preconcentration 230(1990)157

Flow system; Spectrophotometry; Rhenium; Extraction; Potassium perrhenate, Brilliant Green 232(1990)287

Lithium; Ion extraction; Monoazacrown ethers 245(1991)235

**Crude oil**

Principal components; Paraffin inhibitor; Oil additive 229(1990)267

**Cryptahemispheraplexes**

Spectrophotometry; Potassium; Chromogenic, Cryptand, Spherand 241(1990)127

**Crystal growth**

Potentiometry; Calcium carbonate; Phosphate; Urine 229(1990)249

**Crystallization monitoring**

Image analysis; Geometry-based algorithm 238(1990)243

**Curing reactions**

Raman spectrometry 240(1991)339

**Cyanide**

Flow system; Spectrophotometry; Microporous membrane; Thiocyanate 214(1988)259

Flow system; Potentiometry; Heterogeneous membrane electrodes; Gas diffusion 215(1988)283

Spectrophotometry; Flow system; Thiocyanate 220(1989)65

Fluorimetry; Blood; Urine; Taurine, Naphthalenedialdehyde 225(1989)351

Flow system; Potentiometry; Silver-wire electrode; Gas-diffusion separation; Membrane barrier, Selectivity 233(1990)77

Emission spectrometry; Molecular emission cavity analysis; Sulphite-formaldehyde addition compound 233(1990)307

Ion-selective electrodes; Standard potential, Silver iodide, Silver sulphide 233(1990)329

Spectrophotometry; Process analysis; Membrane separation; Ores; Metallurgical samples; PTFE membrane, HCN diffusion 238(1990)117

Spectrophotometry; Fibre-optic chemical sensors; Metalloporphyrins; Corrins 241(1990)119

Ion-selective electrodes; Silver chalcogenide membranes; Electroplated membranes 242(1991)73

Voltammetry; Gold microband electrode 248(1991)173

Chromatography; Ion exchange; Ion-interaction chromatography; Metallo-cyanides; Preconcentration 250(1991)21

**Cyanoisindole**

Fluorimetry; Liquid chrom.; Steroidal primary alcohols 228(1990)307

**Cyclic nucleotides**

Mass spectrometry; Enzymes 247(1991)161

Mass spectrometry; Fast atom bombardment mass spectrometry 247(1991)177

 **$\beta$ -Cyclodextrin**

Raman spectrometry 240(1990)225

**Cyclodextrin complexes**

Liquid chrom.; Polynuclear aromatic hydrocarbons; Formation constants; Solubility; Non-inclusion association, Temperature dependence 232(1990)239

**Cyclodextrin enhancement**

Phosphorimetry; Organic compounds; Room-temperature 217(1989)171

**Cyclodextrins**

Fluorimetry; Retinal complex; Room temperature 227(1989)297

Fluorimetry; Liquid chrom.; Phthalaldehyde; Fluorescamine; Triton; Pharmaceuticals 234(1990)187

Gas chromatography; Enantiomers; Chiral stationary phase 234(1990)365

Fluorimetry; Fibre-optic sensor; Immobilized, Inclusion complex, Anilinonaphthalene sulphonates 237(1990)485

**Cyclohexanone**

Gas chromatography; Fluorimetry; Nitrobenzene; Naphthalene vapour, Indirect fluorescence detection, Quenching constants 233(1990)303

**Cylindrical cavity-type phase separator**

Flow system; Extraction 220(1989)275

**Cylindrical flow cells**

Flow system; Optical fibres; Cell design theory, Algorithm, Capillary column 234(1990)259

**Cytidine**

I.r. spectrometry; Nucleosides; Deoxycytidine; Fourier transform, Phosphate salts, Aqueous solutions 240(1991)277

**Cytochrome**

Chemiluminescence; Luminol; Microsomal protein; Isoenzyme 227(1989)49

**Cytotoxicity**

Liquid chrom.; Fish; Waters; Organic pollutants; In vitro 234(1990)193

**D****Dacarbazine**

Voltammetry; H.p.l.c.; Serum 202(1987)141

**Dairy fermentation**

Flow system; Lactic acid; Fibre-optic sensor; Biosensor; Kefir culture; Immobilized lactate oxidase 234(1990)107

**Dansylaminophenylboronate**

Liquid chrom.; Fluorimetry; Brassinosteroid 228(1990)101

**Dansylproline chiral derivatization**

Liquid chrom.; Amine enantiomers; Reversed-phase, Diethyl phosphorocyanidate 243(1991)251

**Data acquisition schedules**

Spectrophotometry; First-order decay of an absorbing species; Optimization 204(1988)295

Optimization, Burst, Clustered-point 211(1988)31

**Data bank**

Principal components; Pattern recognition; Food chemistry 223(1989)223

**Data base**

Mass spectrometry 228(1990)177

Food flavours; Identification, Production control 235(1990)215

**Data base searching**

Chemical substructures; Parallel hardware, Protein data bank 235(1990)77

Chemical structures; Beilstein, Comparison of systems 235(1990)87

**Data smoothing**

Savitzky-Golay filter; Weighting functions 249(1991)331



**Data transformation**

Latent-variable model; Model building; Marker approach 223 (1989)53

**Deferred standard**

Gas chromatography; Liquid chrom.; Process analysis 238 (1990)17

**Deferred standard technique**

Gas chromatography; Process analysis 238(1990)129

**Dehydrochlorination**

Raman spectrometry; Poly(vinyl chloride); Polyene sequence length; Resonance, Nickel(II) maleate 240(1990)97

**Denatured protein**

Immunoassay; Antibodies to peptides; Short synthetic, Specific recognition 213(1988)187

**Densitometry**

Fluorimetry; Photomicrography; Tissue 227(1989)235

**Dental alloys**

Flow system; Spectrophotometry; Catalysts; Palladium 214 (1988)271

**Denuder tube**

Adsorption; Nitrobenzene; Trichloroethane; Platinum/lead collection surface 226(1989)145

**Deoxycytidine**

I.r. spectrometry; Nucleosides; Cytidine; Fourier transform, Phosphate salts, Aqueous solutions 240(1991)277

**Depth profiling**

I.r. spectrometry; Attenuated total reflection; Poly(ethylene terephthalate) 240(1991)353

**Derivative spectroscopy**

Spectrophotometry; Ampicillin; Cloxacillin; Pharmaceuticals 209(1988)175

Spectrophotometry; Sulphonamide; Pharmaceuticals; Bratton-Marshall reaction, Urine, Honey 233(1990)289

Flow system; Liquid chrom.; Phloroglucinols; Photodiode-array detection, Post-column continuous-flow analysis, Computer-aided, Kosins 234(1989)89

Spectrophotometry; Dissociation constants; Phenothiazines; Sparingly soluble 242(1991)131

Spectrophotometry; Cobalt; Complexation; Nitropyridylhydrazones 244(1991)223

Spectrophotometry; Pharmaceuticals; Vitamins; Third-derivative 248(1991)583

**Dermatological preparation**

Liquid chrom.; Spectrophotometry; Tolnaftate; Undecenoic acid 229(1990)255

**Detection limit**

Flow system; Spectrophotometry; Chloride 214(1988)447

**Detectors**

Flow system; Liquid chrom.; At. abs. spectrometry; Review 234(1989)3

Flow system; Spectrophotometry; Potentiometry; Voltammetry; Ion-sensitive field effect transistor; Impulse-response functions 239(1990)245

**Deuterium labelling**

Mass spectrometry; Metabolic studies 247(1991)277

**Dextromethorphan hydrobromide**

Spectrophotometry; Pharmaceutical preparation; Phenylpropanolamine hydrochloride; Second-derivative 226(1989)159

**Di-isopropyl fluorophosphate electrode**

Potentiometry; Squid nerve tissue, Fluoride electrode 209 (1988)351

**Diacetylpyridine bis(*N*-methylenepyridiniohydrazone)**

Liquid chrom.; Metal chelate; Rare earth complex 229(1990)101

**Dialkyldithiocarbamate**

Liquid chrom.; Chemically modified silica; Enrichment 225 (1989)303

**Dialyser**

Spectrophotometry; Flow system; Ethanol; Blood; Enzyme reactor; Immobilized, Alcohol dehydrogenase 231(1990)115

**Dialysis**

Flow system; Laminar flow model 224(1989)13

**Dialysis fluids**

Phosphorimetry; Aluminium; Waters; Room-temperature, Ferron chelate in micellar media 212(1988)235

**Diaminophthalhydrazide**

Chemiluminescence; Liquid chrom.; Keto acids; Hydrogen peroxide 231(1990)1

**Diaminopurinol**

Cyclic voltammetry; Diff. pulse voltammetry; Graphite electrodes; Carbonyl sites 243(1991)33

**Diatomic molecules**

Raman spectrometry; Continuum resonance Raman scattering; Halogens; Unimolecular dissociation 240(1990)119

**Dibenzylthiocarbamate**

Arsenic speciation; Coprecipitation; Neutron activation 222 (1989)159

**Diborane**

Spectrophotometry; Borate; Hydride generation; Boric acid 246(1991)413

**Dicarbonyl compounds**

Fluorimetry; 1,2-Diamino-4,5-methylenedioxybenzene reagent 215(1988)267

**Dichloroanthracene**

Spectrophotometry; Time-resolved absorption spectra; Electrolysis; Xenon pulse-flash lamp, Millisecond reactions 245 (1991)199

**Dichlorofluorescein**

Fluorimetry; Fluorescein; Variable-angle spectrometer, Simultaneous determination 233(1990)159



**Dichlorophenolindophenol**

Kinetic analysis; Dithionites 224(1989)199

**Dichroism**

I.r. spectrometry; Polarization; Fourier transform, Linear and circular dichroic spectra 240(1990)145

**Dichromate**

Flow system; Spectrophotometry; Extraction; Tetramethylenebis(triphenylphosphonium) cation 225(1989)241

**Dicyclohexyl-18-crown-6**

Spectrophotometry; Zirconium; Hafnium; Extraction; Crown ether 245(1991)27

**Dielectric constant**

I.r. spectrometry; Composites; Bismuth; Two-phase, Topology 240(1990)173

**Dielectric function**

I.r. spectrometry; Polystyrene; Silica; Simulated spectra 240(1990)187

**Dienes**

N.m.r. spectrometry; Pheromones; Configurations; Fuzzy classification;  $^{13}\text{C}$  chemical shifts 233(1990)223

**Diesel fuel**

I.r. spectrometry; Fuel quality; Fibre optics; Multivariate calibration; Process analysis; Gasoline; Octane number, Cetane number 238(1990)95

**Diesel particulate**

Gas chromatography; Mass spectrometry; Air; Polynuclear aromatic hydrocarbon; Nitrated polynuclear aromatic hydrocarbon 221(1989)53

**Dietary copper**

Emission spectrometry; Neutron activation; Copper isotope; Hair; Direct-current argon plasma 225(1989)185

**Diethanolamine**

Mass spectrometry; Ionization processes; Hydrochloric acid; Fast atom bombardment, Aggregate ions 241(1990)227

**Diethyl ether**

Opto-acoustic spectroscopy; Overtone spectroscopy; Pyroelectric detector, Laser power 240(1991)377

**Diethylaniline**

Fluorimetry; Exciplex; Indole; Liposome; Pyrene 227(1989)267

**Diethylbarbiturate**

Flow system; Potentiometry; Tubular electrode; Pharmaceuticals 234(1990)221

**Differential double-layer capacitance**

H.p.l.c.; Amperometry; Anion monitoring; Electrosorptive, Mercury electrodes 204(1988)95

**Differential reaction-rate methods**

Spectrophotometry; Continuous addition of reagent technique; Copper; Iron; Serum; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

**Diffuse reflectance**

I.r. spectrometry; Inorganic powders; Silica; Silicon carbide; Blocker device, Simulation technique 240(1990)229

I.r. spectrometry; Glass-covered samples; Hydrogen spillover; Zeolite; Fourier transform, Water formation 240(1991)363

Spectrophotometry; Chlorine; Optical fibre sensor; *o*-Toluidine, Nylon strip, Dry reagent 244(1991)71

**Diffusion coefficient**

Electroanalytical measurements; Concentration, Number of electrons 211(1988)325

Amperometry; Flow system 246(1991)341

**Digital filters**

Ion mobility spectrometry; Vapour monitors; Bis-2-chloroethyl sulphide; Narrow-bandpass 232(1990)261

**Digital simulation**

Voltammetry; Probability theory; Theoretical analysis of response 201(1987)295

Cyclic voltammetry; Non-first-order electrode reactions, Finite-difference, Linear-sweep 211(1988)75

Expert system; Laboratory management 222(1989)1

Expert system; Quality control 222(1989)19

Chronopotentiometry; Chronoamperometry; Saul'yev methods, Boundary conditions 239(1990)87

**Digoxin**

H.p.l.c.; Immunoassay; Voltammetry; Aminophenyl phosphate substrate 214(1988)187

**Dihydrodimethoxymethyloxoquinolinecarbonyl chloride**

Liquid chrom.; Fluorimetry; Amine 223(1989)319

**Dilution module**

Flow system; Single-stage, Dual-stage 207(1988)225

**Dimethyl aminopropanol**

Polarography; Boiler water; Copper; Volatile amine 229(1990)149

**Dimethyl glyoxime**

Liquid chrom.; Acenaphthenequinone dioxime; Naphthalene; Palladium; Preconcentration 230(1990)17

**Dimethyl sulphoxide**

Amperometry; DMSO; Electrocatalysis; Lead dioxide; Bismuth-doped lead dioxide thin films 248(1991)85

**Dimethyladenosine**

Gas chromatography; Mass spectrometry; Urine 247(1991)201

**Dimethylaminoethanol**

D.c. polarography; Diff. pulse polarography; Copper; Aminomethoxypropane; Waters; Boiler water; Amine complexes, Reduction 239(1990)291

**Dimethylbut-1-yne**

Raman spectrometry; I.r. spectrometry; Methylbut-1-yne 240(1991)317

**Dimethyldiphenylbenzidine**

Raman spectrometry; Spectrophotometry; Flow system; Electrolysis; Electrooxidation; Homogeneous solution, Time-resolved 240(1991)329

**Dimethylethyleneurea**

I.r. spectrometry; Raman spectrometry; Dimethylimidazolidinone; Deuterated 240(1991)395

**Dimethylformamide**

Autoprotolysis constants; Carboxylic acid; Solvent effect 228(1990)301

Polarography; Complexation; Tin; Acetonitrile; Free energy of transfer, Stability constants 242(1991)295

**Dimethylimidazolidinone**

I.r. spectrometry; Raman spectrometry; Dimethylethyleneurea; Deuterated 240(1991)395

**4,4-Dimethyl-2-pentyne**

I.r. spectrometry; Raman spectrometry 240(1991)389

**Dimethylxanthine**

Chemiluminescence; Europium(III); Energy transfer 237(1990)273

**Dinitrocatechol**

Spectrophotometry; Flotation separation; Niobium; Oxalate; Rhodamine B 226(1989)281

**Dinitrophenolate electrode**

Potentiometry; Honey; Reducing sugars 218(1989)37

**Dinitrotoluene**

Fluorimetry; Waters; Nitro compounds; Explosives; Trinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265

**Dinoflagellate toxin**

Gas chromatography; Principal components; Mussel 222(1989)35

**Diode-array detection**

Flow system; Nickel; Zinc; Pyridylazonaphthol 241(1990)153

**Diode-array UV-visible spectrophotometer**

Spectrophotometry; Precision 234(1990)395

**Diphacinone**

Fluorimetry; Europium; Yttrium; Rare earth oxides; Fluorescence enhancement, Ammonia 231(1990)295

**Diphenylcarbazone**

Voltammetry; Mercury; Modified electrode 228(1990)259

**Diphenylhexatriene**

Fluorimetry; Alkyl lysophospholipid 227(1989)303

**Diquat**

Titrimetry; Potentiometry; Ion-pair; Paraquat; Bisquaternary cation 226(1989)177

Flow system; Fluorimetry; Herbicides 244(1991)99

**Direct current**

At. emission spectrom.; Boron; Plasmas; Silica; Acid decomposition, Mannitol 245(1991)207

**Direct reflection ellipsometry**

Lipid monolayers 202(1987)215

**Disaccharides**

H.p.l.c.; Voltammetry; Foods; Monosaccharides; Physiological fluids; Electrocatalytic chemically modified electrode 206(1988)85

**Discriminant analysis techniques**

I.r. spectrometry; Atmospheric pollutants; Interferograms 246(1991)85

**Discriminants**

Pattern recognition; Training sets 249(1991)305

**Disjoint classification program**

Pattern recognition 209(1988)265

**Dispersion**

Flow system; Spectrophotometry 214(1988)97

Flow system; Volumetric fraction 226(1989)129

**Dispersion behaviour**

Flow system; Spectrophotometry; Impulse/response functions; Fourier algorithm 214(1988)77

**Dispersion characteristics**

Flow system; Single-line, Without chemical reaction 208(1988)117

**Dispersion parameters**

Flow system; Spectrophotometry; Prediction 220(1989)43

**Disposable analytical devices**

Immunoassay; Clinical test devices; Printed liquidic circuits; Switch devices 249(1991)263

**Dissociation constants**

Ion exchange; Citric acid; Ternary system 222(1989)189

Polarography; Potentiometry; Bromopyridinium ion 224(1989)109

Spectrophotometry; Derivative spectroscopy; Phenothiazines; Sparingly soluble 242(1991)131

Potentiometry; Brønsted acids; Polyaza macrocycles; Polyoxa-polyaza macrocycles; Water, Deuterium oxide 245(1991)271

Spectrophotometry; Acid-base equilibria; Azo dyes; Aqueous dimethylformamide 246(1991)429

**Dissolution**

Emission spectrometry; Biological material; Environmental material; Microwave; Inductively coupled plasma 225(1989)159

**Distillation column control**

Gas chromatography; Concentration profile measurements; Process analysis; Parameter estimation, Water-methanol-isopropanol 238(1990)139

**Distribution coefficients**

Ion exchange; Metal complexes; Ammonium nitrate; Amines, Aquo complexes, Cation-exchange 233(1990)129

**Distribution plots**

Simplex search; Maximal or minimal concentrations 206 (1988)189

**Disulphane**

I.r. spectrometry; Internal rotation; Rotational and torsional spectra, Millimetre and submillimetre, Isotopes 240(1991)263

**Disulphides**

H.p.l.c.; Fluorimetry; Rat tissues; Thiols; Pre-column derivatization 205(1988)29

**Disulphur**

Emission spectrom.; Sulphate; Disulphur molecular emission 243(1991)227

**Dithionites**

Kinetic analysis; Dichlorophenolindophenol 224(1989)199

**DMSO**

Amperometry; Dimethyl sulphoxide; Electrocatalysis; Lead dioxide; Bismuth-doped lead dioxide thin films 248(1991)85

**DNA**

Fluorimetry; Quinolizinium salts 205(1988)105

Chemiluminescence; Flow system; Enzyme reactor; Biotinylated glucose oxidase-labelled DNA probes, Hydrogen peroxide 249(1991)155

**DNA hybridization kinetics**

Fluorimetry; Kinetic analysis; Fluorescence polarization; Labelled oligonucleotides, Mismatches 244(1991)207

**DNA probes**

Bovine brain tissue; Gangliosides; Pharmaceuticals; Quality control; Dot-blot hybridization 249(1991)291

**Dodecylquinolinium bromide**

Amperometry; Titrimetry; Polarography; Colloidal electrolytes; Potassium dichromate, Potassium hexacyanoferrate(III), Ammonium molybdate 236(1990)325

**Dopamine**

Amperometry; Flow system; Bioelectrodes from plant tissue; Dual electrode 218(1989)281

Amperometry; Flow system; Enzyme electrode; Norepinephrine; Plant tissue-based electrode, Zucchini-based electrode, Ascorbic acid interference elimination 234(1990)315

**Double-reciprocal plot**

Image analysis; Drug; Enzyme-multiplied 223(1989)293

**Dowex**

Ion exchange; Polyurethane foam; Retention behaviour; Hydrochloric acid-potassium thiocyanate 229(1990)127

**Doxorubicin**

H.p.l.c.; Plasma; Reversed-phase ion-pair 217(1989)149

**Droplet countercurrent chromatography**

Liquid chrom.; Centrifugal partition chromatography; Natural products 236(1990)63

**Dropping mercury electrode**

Polarography; Cobalt-ammonia complexes; Reduction mechanism; Stability constants 231(1990)143

**Drug**

Image analysis; Double-reciprocal plot; Enzyme-multiplied 223(1989)293

**Drug-macromolecule binding parameters**

Spectrophotometry; Binding parameters; Numerical analysis; Scatchard plot, Phenylbutazone, Oxyphenbutazone 244(1991)145

**Dry ashing**

Organic matrices; Plasma; Nitrogen; Microwave, Low-pressure oxygen atmosphere 233(1990)321

**Dual-cell geometry**

Mass spectrometry; Fourier transform; Ion cyclotron resonance 225(1989)11

**Dye adsorption**

Gas chromatography; Methyl red; Sterchamol; Retention mechanism 232(1990)413

**Dye fibre-optic pH sensor**

Waters; Sea water; pH; Phenol red, Amberlite resin 232 (1990)337

**Dyes**

Raman spectrometry; Silver colloid; Surfactant; Surface-enhanced 225(1989)227

Spectrophotometry; Flow system; Surfactants; Quaternary ammonium, Sodium dodecyl sulphate 246(1991)333

**Dysprosium**

Fluorimetry; Enhancement by alkaline earth metal ions 212 (1988)285

Fluorimetry; EDTA/Tiron/surfactant 215(1988)331

**E****Ecdysteroids**

Liquid chrom.; Solid-phase extraction; Sample preparation; Insects; Hormones, Sep-Pak cartridge, Phenylboronic acid 236(1990)145

**Edible oil**

Optimization Statistics 223(1989)237

**Education**

Process analysis; Teaching 238(1990)63

**Eggplant**

Amperometry; Enzyme electrode; Biosensor; Catechol; Bi-amperometric, Carbon paste electrode, Polyphenol oxidases 237(1990)107

**Eggs**

Gas chromatography; Mass spectrometry; Chloramphenicol;

Urine; Biological materials; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61

### **Eigenvector**

Pattern recognition; Compatibility; Triterpane; Oil 223(1989)45

### **Elastase**

Conductimetry/oscillometry; Biological samples; Enzyme activity; *Pseudomonas aeruginosa*; Tetraalanine substrate, Insoluble elastin substrate 247(1991)79

### **Electroanalytical measurements**

Diffusion coefficient; Concentration, Number of electrons 211(1988)325

### **Electrocatalysis**

Flow system; Amperometry; Redox gas; Chemically modified electrode 224(1989)305

Amperometry; Dimethyl sulphoxide; DMSO; Lead dioxide; Bismuth-doped lead dioxide thin films 248(1991)85

### **Electrochemical activation**

Liquid chrom.; Thiopurine; Enzymatic activation; Oxidation; Micellar, Horseradish peroxidase 237(1990)305

### **Electrochemical biosensors**

Amperometry; Flow system; Milk components; Metabolites 213(1988)101

### **Electrochemical cell**

Anod. stripping voltammetry; Voltammetry; Lead; Cadmium; Epinephrine; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

### **Electrochemical concentration**

Chromatography; Injection device; Correlation chromatography 228(1990)209

### **Electrochemical detection**

Flow system; Amperometry; Chemically modified electrodes 234(1989)41

### **Electrochemical mechanism elucidation**

Raman spectrometry; Voltammetry; Real-time surface-enhanced, Linear-sweep 212(1988)201

### **Electrochemical mechanisms**

Polarography; Knowledge-based system; Sampled d.c., Tast, Automatic 231(1990)59

### **Electrochemical oxidation**

Cyclic voltammetry; Glassy carbon electrodes; Redox species 243(1991)43

### **Electrochemical pretreatment**

Voltammetry; Alkaline earth metal ion; Alkali metal ion; Glassy carbon fibre 222(1989)127

### **Electrode kinetics**

Cyclic voltammetry; Ferrocene; Micro-electrode 225(1989)83

### **Electrode reaction mechanisms**

Voltammetry; Coulometry; Expert system 248(1991)429

### **Electroluminescence**

Fluorimetry; Trace organic fluorescent compounds; Oxide-covered aluminium electrode 207(1988)195

Fluorimetry; Hydrogen peroxide; Cathodic, Terbium(III)-doped oxide-covered tantalum electrode 208(1988)69

Fluorimetry; Europium; Cathodic, Oxide-coated aluminium electrode 209(1988)165

Copper; Cathodic 211(1988)105

### **Electroluminescent compounds**

Flow system; Chemiluminescence; Polynuclear aromatic hydrocarbons; Micelle-encapsulated, 9,10-Diphenylanthracene, Oxide-covered aluminium electrode 233(1990)199

### **Electrolysis**

Raman spectrometry; Spectrophotometry; Flow system; Dimethyldiphenylbenzidine; Electrooxidation; Homogeneous solution, Time-resolved 240(1991)329

Spectrophotometry; Time-resolved absorption spectra; Dichloroanthracene; Xenon pulse-flash lamp, Millisecond reactions 245(1991)199

### **Electrolyte disorder**

Acid/base disorder; Expert system 223(1989)269

### **Electrolytic dissolution**

Flow system; Spectrophotometry; Molybdenum; Steels 214(1988)397

At. abs. spectrometry; Flow system; Copper; Aluminium alloys 243(1991)65

### **Electromagnetic entrapment of biocatalyst**

Voltammetry; Enzyme electrode; Glucose; Magnetic beads 213(1988)121

### **Electron mediator**

Amperometry; Fermentation; Glucose; Enzyme electrode 222(1989)75

### **Electron transfer**

Kinetic analysis; Amperometry; Biosensors; Quinoproteins; Methylamine dehydrogenase; Amicyanin, Cytochrome *c* 249(1991)235

### **Electron-capture detection**

Flow system; PTFE tape separator; PTFE tubing separator; Two-phase separation, Free chlorine 243(1991)131

### **Electrooxidation**

Raman spectrometry; Spectrophotometry; Flow system; Dimethyldiphenylbenzidine; Electrolysis; Homogeneous solution, Time-resolved 240(1991)329

### **Electropneumatic**

Syringe dispenser 221(1989)189

### **Electropolymerization**

Amperometry; Cyclic voltammetry; Glassy carbon electrodes; Polymer-coated electrodes; Resole prepolymer mixtures; Continuous-flow sensing 249(1991)395

**Elemental analysis**

Mass spectrometry; Combustion; Nitrogen 226(1989)345

Mass spectrometry; Algorithms 248(1991)71

Mass spectrometry; Laser desorption; Plasmas; Inductively coupled, Time-of-flight 250(1991)61

**Elements**

Emission spectrometry; Body fluids; Discrete nebulization, Nitrous oxide/acetylene 207(1988)349

**Emulsification**

At. abs. spectrometry; Manganese; Organic solvents; Zinc; Triton X-100, Bis-2-ethylhexylphosphoric acid 246(1991)347

**Enantiomer separation**

Liquid chrom.; Amino acids; Glutamic acid; Chiral separation; Chiral stationary phase, Cyclodextrin, Phthalaldehyde derivatization 234(1990)127

**Enantiomers**

Gas chromatography; Cyclodextrins; Chiral stationary phase 234(1990)365

**Enantiomers containing single aromatic rings**

H.p.l.c.;  $\beta$ -Cyclodextrin-bonded phases 208(1988)275

**Enantioselective optode**

Spectrophotometry; Tartrate; 1-Phenylethylamine, Propranolol, Norephedrine 246(1991)251

**Enantioselective solubilization**

Chromatography; Amino acids; Mixed-ligand complexes, *N*-alkyl-L-proline derivatives 242(1991)291

**Endoglucanase I**

Mass spectrometry; Glycoproteins; Time-of-flight, UV laser desorption, Plasma desorption, *Trichoderma reesei* fungus 241(1990)321

**Endotoxin**

Piezoelectric sensing; Viscosity monitoring; Gelation of *Limulus* amoebocyte lysate 215(1988)91

**Enrichment**

Liquid chrom.; Chemically modified silica; Dialkylthiocarbamate 225(1989)303

**Enteropathogenic bacteria**

Electrophoresis; Restriction endonucleases 213(1988)273

**Enterotoxin B**

Immunoassay; Potentiometry; Biosensors; Capacitance; Semiconductors; Toxins; Antibody fixation, Grafted immunospecies 249(1991)367

**Environmental analysis**

Pattern recognition; Supervised learning; Class-in-class modelling 243(1991)311

**Environmental materials**

Activ. analysis; Trace elements; Instrumental neutron 219(1989)317

Emission spectrometry; Biological material; Dissolution; Microwave; Inductively coupled plasma 225(1989)159

**Environmental mixtures**

I.r. spectrometry; Expert system; Interpretation program 210(1988)51

**Environmental pollutants**

Chemiluminescence; Toxic compounds; Recombinant DNA; *Escherichia coli* bioluminescence, Sodium azide, Chloramphenicol 244(1991)201

**Environmental samples**

Electrotherm. atomization; At. abs. spectrometry; Copper; Extraction; Lead 218(1989)173

Ion exchange; Extraction; Technetium 228(1990)163

At. fluor. spectrometry; Plasma; Inductively coupled, Gas-phase atomization 231(1990)85

At. abs. spectrometry; Waters; Lead; Cadmium; Copper; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

I.r. spectrometry; Gas chromatography; Pesticides; Polynuclear aromatic hydrocarbons; Fourier transform, Low temperature 240(1990)205

**Enzymatic activation**

Liquid chrom.; Thiopurine; Electrochemical activation; Oxidation; Micellar, Horseradish peroxidase 237(1990)305

**Enzymatic assays**

Flow system; Spectrophotometry; Review 216(1989)257

Chemiluminescence; Amino acid; Glucose; Luminol; Micelle 225(1989)147

**Enzymatic hydrolysis**

Flow system; Amperometry; Penicillin; Pharmaceuticals; Expert system; Validation program 233(1990)65

**Enzymatic method**

Ion exchange; Chromatography; Oxalate; Plasma; Chloride removal 237(1990)299

**Enzyme activities**

Fluorimetry; Plasma; Microlitre volumes 205(1988)97

Conductometry; Kinetic analysis; Blood 213(1988)267

Electrophoresis; Proteinase; Trypsin; Papain; Chromogenic substrates, *N*-Benzoyl-DL-arginine *p*-nitroanilide 238(1990)331

Conductimetry/oscillometry; Biological samples; Elastase; *Pseudomonas aeruginosa*; Tetraalanine substrate, Insoluble elastin substrate 247(1991)79

**Enzyme amplification**

Immunoassay; Immunoglobulin G; Human, Anti-human, Solid-phase, Enzyme cascade 232(1990)267

Spectrophotometry; Clostridiopeptidase A; Collagenase; Solid-supported, Single-enzyme, Multi-enzyme 232(1990)273

**Enzyme analysis**

Chemical oscillator; Peroxidase-oxidase, Period doubling 237(1990)381

**Enzyme bioluminescence reaction**

Chemiluminescence; Formic acid; Waters; Sea water 231(1990)299



**Enzyme cartridge**

Flow system; Amperometry; Cell cultivation; Glucose; Lactate 225(1989)253

**Enzyme electrodes**

Amperometry; Glucose 201(1987)281

Amperometry; Lactate; Mathematical treatment 201(1987)305

H.p.l.c.; Amperometry; Amino acids; Detectors 209(1988)259

Potentiometry; Biosensors; Review; Electronic, Opto-electronic 213(1988)23

Flow system; Amperometry; Enzyme reactor; Lactate 213(1988)91

Voltammetry; Chloroform; Cresol; Waters 213(1988)113

Voltammetry; Electromagnetic entrapment of biocatalyst; Glucose; Magnetic beads 213(1988)121

Flow system; Glutamate; Enzyme reactor; Glutamate oxidase, Immobilized, Hydrogen peroxide 231(1990)121

Amperometry; Lactate; Lactate dehydrogenase, Diaphorase, NADH, Hexacyanoferrate(II) 231(1990)309

Glucose; Polycarbonate membrane; Blood; Hydrogen peroxide, Isopropyl myristate 232(1990)357

Amperometry; Flow system; Dopamine; Norepinephrine; Plant tissue-based electrode, Zucchini-based electrode, Ascorbic acid interference elimination 234(1990)315

Flow system; Amperometry; Glucose; Blood; Mediator 234(1990)321

Amperometry; Lactate; Tetrathiafulvalene mediator; Carbon foil, Lactate oxidase 234(1990)459

Cyclic voltammetry; Glucose; Poly(*N*-methylpyrrole) film, Immobilized, Glucose oxidase, Gold microelectrode, Electropolymerization 235(1990)255

Flow system; Fermentation; Biosensor; Modified graphite electrode, Glucose dehydrogenase, Glucose 235(1990)265

Amperometry; Glucose; Sucrose; Immobilized invertase, Beverages 236(1990)245

Polarography; Amplification; Glutamate; Alanine 236(1990)437

Potentiometry; Acetylcholine; Coated-wire electrode; Biosensor; Immobilized, Hydrogen ion-selective electrode 236(1990)441

Potentiometry; Allopurinol; Biosensor; Carbon paste electrode, Xanthine oxidase 237(1990)91

Amperometry; Hydroxybutyrate; Blood; Plasma; Biosensor; Platinized carbon electrode, NADH 237(1990)99

Amperometry; Biosensor; Catechol; Eggplant; Biamperometric, Carbon paste electrode, Polyphenol oxidases 237(1990)107

Potentiometry; Urea; Metal-metal oxide, Tungsten 237(1990)399

Amperometry; Phosphate; Waters; Hydrogen peroxide, Eutrophication 239(1990)1

Potentiometry; Peptides; Coated-wire electrode, Trypsin,  $\alpha$ -Chymotrypsin 239(1990)13

Amperometry; Biosensor; Hydrogen peroxide; Human erythrocytes, Catalase activity 239(1990)19

Amperometry; Glucose; Biosensor; Ugi reaction, Immobilization, Cyclohexyl cyanide, Glutaraldehyde 239(1990)263

Potentiometry; Tungsten electrode; Urea; Immobilized, Urease 239(1990)269

Flow system; Mathematical modelling; Single-line, Kinetics 241(1990)43

Flow system; Mathematical modelling; Single-line, Simulation 241(1990)55

Amperometry; Lactate; Pyruvate; Cholesterol; Uric acid; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85

Amperometry; Flow system; Glucose; Foods; Soft drinks; Hydrogen peroxide, Membrane 242(1991)91

Amperometry; Hypoxanthine; Xanthine; Uric acid, Xanthine oxidase, Carbon paste 242(1991)267

Amperometry; Glucose; Glucose oxidase, Needle-type microsensor 242(1991)275

Amperometry; Amines; Plant growth regulators; Carbon paste-pea seedling sensor, Diamine oxidase, Hydrogen peroxide 243(1991)1

Amperometry; Glutamate; L-Glutamate oxidase, *Streptomyces platensis* 243(1991)9

Amperometry; Preconcentration; Biocatalytic accumulation; Glucose 243(1991)17

Amperometry; Lactate; Gamma irradiation; Poly(vinyl alcohol); Lactate oxidase, Platinized graphite, Hydrogen peroxide 243(1991)23

Potentiometry; Lactate; Flavocytochrome *b*<sub>2</sub>; Reagentless, Electrocatalytic oxidation 243(1991)167

Amperometry; Biosensors; Hypoxanthine; Fish; Foods; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161

Amperometry; Aspartate aminotransferase; Alanine aminotransferase; Serum; Glutamate oxidase, Hydrogen peroxide 245(1991)57

Amperometry; Aspartate electrode 245(1991)63

Ion exchange; Enzyme inhibition; Oxalate oxidase; Urine, Oxalate, Thiocyanate 245(1991)129

Amperometry; Hydrogen peroxide; Organic solvents, Horseradish peroxidase 245(1991)133

Amperometry; Lactate; Malate; Wines; Malate dehydrogenase, NADH oxidase 245(1991)145

Amperometry; Lactate; Saliva; Lactate oxidase, Hydrogen peroxide 245(1991)151

Amperometry; Flow system; Biosensors; Glucose; Glucose dehydrogenase, Benzene-1,4-dicarboxamide *N,N*-bis(benzophenoxazinyl) derivative 246(1991)283

Cyclic voltammetry; Amperometry; Glucose; Viologens; Electron-transfer mediators, Carbon paste electrode 248(1991)155



Biosensors; Organic phase; Review 249(1991)1

Amperometry; Glucose; Biosensors; Glucose dehydrogenase, Glucose oxidase 249(1991)43

Potentiometry; Ammonia membrane electrode; Biosensor; Serum; Urea; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

Potentiometry; Fermentation broth; Milk; Penicillin; Glass pH electrode, Penicillinase 249(1991)405

Amperometry; Immunoassay; Biosensors; Fibre-optic sensors; Immunosensors; Bioaffinity, Biocatalytic 250(1991)249

### Enzyme immunomicrosensor

Potentiometry; Immunoglobulin; Ion-sensitive field-effect transistor 230(1990)189

### Enzyme inhibition

Ion exchange; Enzyme electrode; Oxalate oxidase; Urine, Oxalate, Thiocyanate 245(1991)129

### Enzyme membrane

Field effect transistor; Glucose; Co-immobilization, Glucose oxidase, Gluconolactonase 231(1990)213

### Enzyme purification

Liquid chrom.; Phosphocellulose; Recombinant DNA 249(1991)195

### Enzyme reactions

Flow system; Kinetic analysis; Liquid chrom.; Computer controlled apparatus; Protein; Stopped-flow 220(1989)13

Fluorimetry; Phenol sulphotransferase; Hydroxybenzaldehyde substrate, Dexamethasone 234(1990)359

Spectrophotometry; Aspartame; Food; Peptidase cleavage, Glutamate oxidation 234(1990)465

Chemiluminescence; Acetaldehyde; Xanthine oxidase, Luminol, Potassium hexacyanoferrate (III) 236(1990)459

Fluorimetry; Lipid membrane; Transduction; Fluorescence microscopy; Nitrobenzoxadiazolephosphatidylethanolamine fluorophore, Acetylcholinesterase, Acetylcholine substrate 237(1990)253

Spectrophotometry; Flow system; Chemiluminescence; Glucose; Serum; Mimetic peroxidase, Hydrogen peroxide, Luminol 237(1990)497

Potentiometry; Amino acids; Tyrosine; Phenylalanine; Membrane electrodes; Decarboxylase 239(1990)23

Spectrophotometry; Hydrogen peroxide; Glucose; Leuco Patent Blue Violet, Peroxidase 243(1991)217

Opto-acoustic spectrom.; Photoacoustic spectroscopy; Acoustic emission; Catalase, Hydrogen peroxide, Oxygen effervescence 246(1991)43

### Enzyme reactor

Flow system; Fluorimetry; Blood; Lactate; Immobilized 201(1987)351

Flow system; Foods; Fructose; Glucose 202(1987)199

Flow system; Amperometry; Carbohydrate; Starch; Immobilized glucoamylase 204(1988)43

Flow system; Chemiluminescence; Sugars 205(1988)195

Flow system; Fluorimetry; Amino acids; Bioluminescence; Serum; Urine; Branched-chain 205(1988)229

Flow system; Amperometry; Myo-inositol 206(1988)49

Flow system; Amperometry; Cholesterol; Serum 207(1988)319

Flow system; Potentiometry; Penicillin; Pharmaceuticals 209(1988)123

Flow system; Spectrophotometry; Alcoholic beverages; Glucose; NADPH formed 211(1988)281

Flow system; Amperometry; Enzyme electrode; Lactate 213(1988)91

Flow system; Amperometry; Xylose; Xylulose 213(1988)139

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Linear and cyclic 214(1988)161

Flow system; Amperometry; Ion exchange; Acetylcholine; Choline; Lipids 214(1988)173

Flow system; Thermom. analysis; Pyrophosphate; Thermistor 214(1988)409

Amperometry; Flow system; Glutathione 214(1988)415

Flow system; Amperometry; Oxalate; Immobilized oxalate oxidase 218(1989)1

H.p.l.c.; Amperometry; Nicotinamide coenzymes 218(1989)129

Flow system; Fluorimetry; Isoleucine; Leucine; Valine; Immobilized leucine dehydrogenase 218(1989)161

Flow system; Spectrophotometry; Glucose; Characterization of activity 218(1989)291

Flow system; Liquid chrom.; Modified electrode; Xylulose; Recirculating flow 225(1989)263

Amperometry; Biosensor; Choline; Acetylcholine; Immobilized, Hydrogen peroxide 231(1990)27

Conductometry; Biosensor; Urea; Asparaginase; Creatinine; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

Spectrophotometry; Flow system; Ethanol; Blood; Dialyser; Immobilized, Alcohol dehydrogenase 231(1990)115

Flow system; Glutamate; Enzyme electrode; Glutamate oxidase, Immobilized, Hydrogen peroxide 231(1990)121

Blood; Plasma; Glucose; Cellulose membranes; Dialysis cell, NADH, Haematocrit 231(1990)165

pH-static enzyme sensor; Ion-sensitive field effect transistor; Enzymatic membrane 233(1990)49

Amperometry; Formaldehyde; Dehydrogenase, Hexacyanoferrate(III), NADH 233(1990)59

Liquid chrom.; Amperometry; Carbohydrates; Immobilized, Post-column derivatization 234(1990)13

Gel perm. chromatography; Flow system; Starch; Glycogen; Amylase; Controlled-pore glass beads, Hydrolysis 234(1989)97

Flow system; Pesticides; Waters; Immobilized acetylcholinesterase, Automated enzyme inhibition, Magnetic device 234(1990)113

Flow system; Amperometry; Ethanol; Beverages; Gas-diffusion membrane; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213

Flow system; Spectrophotometry; Lysine; Amino acids 235(1990)329

Flow system; Paraoxon; Pesticides; Organophosphorus, Continuous-flow, Stopped-flow, Immobilized acetylcholinesterase 236(1990)267

Potentiometry; Pyridostigmine; Plasma; Calibration; Optimization 236(1990)431

Flow system; Sugars; Lactic acid; Protein; Biomass; Fermentation; On-line 237(1990)165

Spectrophotometry; Flow system; Polyamines; Amine oxidases; Cells; Immobilized, Hydrogen peroxide, Sepharose 237(1990)391

Amperometry; Flow system; Glucose; Blood; Chemically modified electrode, Segmented sample injection, On-line dialysis, Haematocrit 237(1990)405

Spectrophotometry; Flow system; Urea; Serum; Gas diffusion, Urease 237(1990)503

Flow system; Amperometry; Phosphate; Substrate recycling; Co-immobilized purine nucleoside phosphorylase-xanthine oxidase, Co-immobilized purine nucleoside phosphorylase-xanthine oxidase-alkaline phosphatase 238(1990)339

Flow system; Spectrophotometry; Lactic acid; Glucose; Serum; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411

Flow system; Fluorimetry; Alanine; Serum; Beverages; Immobilized poly(vinyl alcohol) beads 239(1990)307

Kinetic analysis; Flow system; Oxalate; Urine; Double stopped flow 242(1991)179

Fluorimetry; Flow system; Fructose; Mannitol dehydrogenase 243(1991)183

Fluorimetry; Flow system; Nitrogen compounds; Creatinine; Ammonia; Serum, Amino acids 245(1991)89

Spectrophotometry; Flow system; Malic acid; Wines; Stopped-flow, Malate dehydrogenase, Malolactic fermentation 247(1991)61

Amperometry; Biosensors; Foods; Sucrose; Yeast cell walls; Invertase, Mutarotation, Phosphate 247(1991)83

Amperometry; Flow system; Nicotinamide coenzymes; Immobilized, Amplification, Substrate recycling, Hydrogen peroxide 248(1991)345

Fluorimetry; Liquid chrom.; Sorbitol dehydrogenase 248(1991)367

Flow system; Amperometry; Air; Alcohols; Gas detection; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379

Voltammetry; Biosensors; Catecholamines; Indoleamines; Ion-selective electrodes; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

Flow system; Spectrophotometry; Aldehydes; Immobilized yeast aldehyde dehydrogenase, Controlled-pore glass 249(1991)145

Chemiluminescence; Flow system; DNA; Biotinylated glucose oxidase-labelled DNA probes, Hydrogen peroxide 249(1991)155

Flow system; Amperometry; Glucose; Double injection, Oxygen-permeable reaction coil, Stopped-flow 249(1991)451

Fluorimetry; Flow system; Liquid chrom.; Bile acids; Serum; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461

Amperometry; Flow system; Biosensors; Chemically modified electrodes; Immobilized, Selective detection 250(1991)203

### Enzyme systems

Potentiometry; Alcohol-FET sensor; Blood ethanol 207(1988)77

Flow system; Chemiluminescence; Fibre-optic sensor; ATP; NADH; Polyamide membrane 235(1990)243

Chemiluminescence; Flow system; Immunoassay; Haptens; Thyroxine; Horseradish peroxidase, Luminol 237(1990)285

Glucose oxidase; Monoclonal antibodies; Screening procedures; ELISA 241(1990)105

### Enzyme thermistor

Thermom. analysis; Process analysis; Biosensor; Sugars; Glucose, Maltose, Sucrose, Fermentation 238(1990)211

### Enzyme-catalysed reactions

Conductometry; Serum; Urea 211(1988)205

Chemiluminescence; Biosensors; Fibre-optic sensor; Self-contained, Entrapped co-reactant 243(1991)149

### Enzyme-linked immunosorbent assay

Flow system; Immunoassay; Bioreactors; Process monitoring 249(1991)163

Immunoassay; Electrophoresis; Antibody expression; Flow cytometry; Hybridoma cells; Monoclonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

### Enzyme-modified field effect transistor

Flow system; Potentiometry; Urea 202(1987)131

### Enzymes

Immunoassay; Amperometry;  $\alpha$ -Fetoprotein; Immunocomplex; Biosensor 222(1989)235

Mass spectrometry; Cyclic nucleotides 247(1991)161

Analyte recognition; Carriers; Molecular interaction; Optical sensing; Transduction 250(1991)181

### Epinephrine

Flow system; Fluorimetry; Norepinephrine; Trihydroxyindole; Urine 229(1990)27

Anod. stripping voltammetry; Voltammetry; Electrochemical cell; Lead; Cadmium; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

### Equilibria

Complexation equilibria; Predominance-zone diagrams; Multiconditional constants 246(1991)435

### Equilibrium constants

Potentiometry; Algorithm 223(1989)419

Multi-equilibria systems; Algorithms 249(1991)353

### Equivalence point

Titrimetry; Anod. stripping voltammetry 206(1988)153

**Equivalence volumes**

Potentiometry; Titrimetry; Review 206(1988)111

**Erbium**

Lanthanide complexation; Polyimide film; Circular dichroism spectroscopy; Factor analysis; Kalman filter 246(1991)1

**Ergosterol**

Liquid chrom.; Spectrophotometry; Yeast cells 225(1989)129

**EROS systems**

Organic synthesis design; Haloform reaction, Similarity definitions 235(1990)65

Organic synthesis design; Automated rule derivation, Machine learning 235(1990)163

**Error analysis**

Flow system; Spectrophotometry; Computer simulation; Signal processing; Iron(II)-*o*-phenanthroline, Azo dye 235(1990)337

Mass spectrometry; Fermentation gas analysis; Process analysis; Poly- $\beta$ -hydroxybutyrate, *Alcaligenes latus*, *Bacillus subtilis* 238(1990)101

Rapid lifetime determination 245(1991)121

**Erythromycin**

Liquid chrom.; Polarimetry; Laser 221(1989)239

**Essential oils**

Gas chromatography; Simplex algorithm; Fragrance matching 248(1991)41

**Ester**

Coulometry; Hydrogen ion; Anodic oxidation, Propylene carbonate 229(1990)287

**Estradiol**

H.p.l.c.; Chemiluminescence; Serum; Normal-phase 205(1988)255

**Estradiol palmitate**

Mass spectrometry; Tandem mass spectrometry 241(1990)265

**Estriol**

Chemiluminescence; Immunoassay; Saliva 205(1988)215

**Estrogen**

Fluorimetry; Immunoassay; Laser 227(1989)129

**Ethanedial**

Spectrophotometry; I.r. spectrometry; Mass spectrometry; Iron(II) complexes; Glyoxal; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Cyclic voltammetry; Amperometry; Iron(II) complexes; Glyoxal; Carbon paste electrodes; Redox mediators 242(1991)241

**Ethanediamine**

Polarography; Lead; Thallium, Cadmium, Hydroxyl ion 226(1989)351

**Ethanol**

Emission spectrometry; Alcohol dehydrogenase-catalyzed reactions; Molecular emission cavity analysis 207(1988)355

Spectrophotometry; Kinetic analysis; Fermentation media; Glucose; Enzymatic 213(1988)61

Flow system; Spectrophotometry; Fluorimetry; Enzyme reactor; Linear and cyclic 214(1988)161

Raman spectrometry; Fermentation process; Fructose; Glucose; Fibre-optic system 215(1988)211

Conductometry; Acetic acid; Acetone; Computerised array; Semiconductor gas sensors 219(1989)213

Amperometry; Alcohol dehydrogenase; Bioelectrode; NADH; Yeast 221(1989)43

Spectrophotometry; Flow system; Blood; Enzyme reactor; Dialyser; Immobilized, Alcohol dehydrogenase 231(1990)115

Flow system; Amperometry; Beverages; Gas-diffusion membrane; Enzyme reactor; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213

Flow system; Spectrophotometry; Fluorimetry; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Principal components; Chemometrics; Cluster analysis; Partial least squares; Solvent identification; Tin oxide thin-film sensor array 250(1991)257

**Ethanol probe**

Conductometry; Fermentors; Membrane gas sensor 215(1988)71

**Ethanol production**

Conductometry; Baker's yeast, Gas sensor 213(1988)151

**Ethanol-selective optode membrane**

244(1991)151

**Ethanolamines**

Principal components; Spectrophotometry; Titrimetry; Copper; Salicylate 223(1989)257

Liquid chrom.; Chemiluminescence; Chromatography; Alkanolamines; Ion-pair, Luminol 246(1991)447

**Ethers**

Kinetic analysis; Acetylacetone; Mass transfer; Extraction; Interfacial 237(1990)237

**Ethyl acetate**

Gas chromatography; Acetaldehyde; Fermentation; Fusel alcohols; Gas-permeable membrane; Alcoholic fed-batch 213(1988)231

**Ethyl tetrabromophenolphthalein**

Spectrophotometry; Aluminium; Nickel ion; Pyridyldiphenyltriazine; Steel 221(1989)109

**Ethylaluminium dichloride**

Raman spectrometry; Molten salts; Organochloroaluminate; Room temperature 240(1991)299

**Ethylammonium nitrate**

Chromatography; Sample preparation; Extraction solvents; Propylammonium nitrate; Liquid-liquid extraction, Proton donors 236(1990)51

**Ethylene**

Gas chromatography; Fruits; Field effect transistor; Semiconductors 231(1990)93

**Ethylenebis(triphenylphosphonium) cation**

Flow system; Spectrophotometry; Cobalt; Extraction 225 (1989)123

**Ethylenediamine**

Voltammetry; Copper; Sea water; Rotating mercury film electrode 245(1991)177

**Ethylene-propylene copolymer**

Gas chromatography; Correlation chromatography; Head-space analysis; Peak resolution 239(1990)317

**Ethylenethiourea**

H.p.l.c.; Filters; Urine; Occupational hygiene 212(1988)297

**Ethylguanine isomers**

Mass spectrometry; Collision-induced dissociation; Laser desorption; Fourier transform 247(1991)235

**Ethylphosphine**

I.r. spectrometry; Organophosphorus compounds; Normal coordinate calculations 240(1990)19

**Etoposide**

Flow system; Spectrophotometry; On-line electrochemical derivatization; Plasma; Teniposide; Diode-array detection 202(1987)35

**Europium**

Flow system; Spectrophotometry; Fluorimetry; On-line reduction 201(1987)339

Fluorimetry; Electroluminescence; Cathodic, Oxide-coated aluminium electrode 209(1988)165

Fluorimetry; Samarium; Laser-excited, Time-resolved, Labelling of biomolecules 219(1989)67

Fluorimetry; Terbium; Samarium; Hexafluoroacetylacetone-triethylphosphine oxide-Triton X-100 231(1990)157

Fluorimetry; Diphacinone; Yttrium; Rare earth oxides; Fluorescence enhancement, Ammonia 231(1990)295

Chemiluminescence; Dimethylxanthine; Energy transfer 237 (1990)273

Fluorimetry; Fluorescence enhancement; Terbium, Phenanthroline, Benzoylacetone 238(1990)307

Diff. pulse voltammetry; Ytterbium; Rare earths; Mercury thin-film electrodes; Nafion coating; Ion-exchange preconcentration 244(1991)29

Fluorimetry; Samarium; Rare earth elements; Fluorescence enhancement, Gadolinium, Dibenzoylmethane-diethylamine 245(1991)109

Fluorimetry; Minerals; Rare earth minerals; Gadolinium fluorescence enhancer 247(1991)37

Voltammetry; Linear-sweep, Normal-pulse, Square-wave, 2-Thenoyltrifluoroacetone complexant 247(1991)89

**Evaporation**

At. abs. spectrometry; Waters; Environmental samples; Lead;

Cadmium; Copper; Zinc; Preconcentration; Snow, Ice, Contamination 236(1990)391

**Exciplex**

Fluorimetry; Diethylaniline; Indole; Liposome; Pyrene 227 (1989)267

**Experimental design**

At. abs. spectrometry; Glass ceramics; Titanium; Nitrous oxide/acetylene 203(1987)55

Spectrophotometry; Niobium; Differential 203(1987)67

Spectrophotometry; Multicomponent determinations 207 (1988)125

**Expert system**

Chemometric program 210(1988)33

I.r. spectrometry; Environmental mixtures; Interpretation program 210(1988)51

Digital simulation; Laboratory management 222(1989)1

Digital simulation; Quality control 222(1989)19

Liquid chrom.; Basic drug; Ion-pair 223(1989)1

Mass spectrometry; Principal components; Toxic compounds 223(1989)105

Liquid chrom.; Spreadsheet 223(1989)183

Acid/base disorder; Electrolyte disorder 223(1989)269

Liquid chrom.; Pharmaceutical sample; Ruggedness test 228 (1990)145

Flow system; Amperometry; Penicillin; Pharmaceuticals; Enzymatic hydrolysis; Validation program 233(1990)65

Literature searches, Information management, Curve fitting, Data description 235(1990)7

Liquid chrom.; Method validation; Precision testing 235 (1990)27

Gas chromatography; Mass spectrometry; Pattern recognition; Low-resolution mass spectra; Volatile organic compounds; MAXMASS 246(1991)391

Voltammetry; Coulometry; Electrode reaction mechanisms 248(1991)429

**Explosives**

Fluorimetry; Waters; Nitro compounds; Trinitrotoluene; Dinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265

**Exponential dilution**

Chromatography; Standards; Gaseous, Concentration gradients 236(1990)221

**Extended x-ray absorption fine structure spectrometry**

Copper oxide; Zinc oxide; Weighting factors 233(1990)229

**External reflection**

I.r. spectrometry; Specular reflectance; Fresnel's equations, Weakly absorbing organic materials, Refractive index 240 (1990)179

I.r. spectrometry; Fourier transform, Theory 240(1991)251

## Extraction

Voltammetry; Sea-water; Selenium; Differential-pulse cathodic stripping 201(1987)33

Flow system; At. abs. spectrometry; Indium; Flame 201(1987)325

Fluorimetry; Lithium; 14-Crown-4-derivative 203(1987)85

Spectrophotometry; Alkaline earth ions; Crown ether dyes; Synthesis 204(1988)113

Electrotherm. atomization; At. abs. spectrometry; Palladium; Platinum; Rocks; Soils; Iodo complexes 204(1988)333

Spectrophotometry; Catalysts; Rhenium; Microcrystalline benzophenone 204(1988)359

Spectrophotometry; Niobium; Steels 204(1988)365

Copper; Spline functions; Surface excess isotherm 206(1988)215

Fluorimetry; Chloroquine; Plasma 206(1988)339

Fluorimetry; Anionic surfactants; Waters; Ion-pair 206(1988)351

Spectrophotometry; Barium; Geological samples 206(1988)363

Spectrophotometry; Trace metals; Waters; 1,3-Dimethyl-4-acetyl-2-pyrazolin-5-one 207(1988)137

Emission spectrometry; Geological materials; Plasmas; Silver 207(1988)171

Electrotherm. atomization; At. abs. spectrometry; Gold; Silver; Thallium; Urine; Flame; Iodide complexes 207(1988)283

Cadmium; Zinc 207(1988)367

Spectrophotometry; Palladium 207(1988)373

Spectrophotometry; Steels; Tungsten 208(1988)91

Anod. stripping voltammetry; Cadmium; Indium; Lead; Thallium; Diethyldithiocarbamates 208(1988)219

Spectrophotometry; At. abs. spectrometry; Sulphide; Fluoride; Phosphate 208(1988)313

Gas chromatography; Mass spectrometry; Pendimethaline; Waters 208(1988)331

Electrotherm. atomization; At. abs. spectrometry; Bismuth metal; Copper; Zinc; Thiocyanate 209(1988)281

Spectrophotometry; Bismuth; Copper-base alloys 211(1988)305

H.p.l.c.; Flow system; Organophosphorus pesticides; Waters 212(1988)123

Flow system; Review 214(1988)29

Flow system; Ion exchange; At. abs. spectrometry; Emission spectrometry; Gas diffusion; On-line separation; Preconcentration 214(1988)41

Flow system; Spectrophotometry; Potassium; Sodium; Waters; Silica column 214(1988)289

Spectrophotometry; Cinchona alkaloids; Chiral organic anion extractants; Ion-pair 215(1988)119

At. abs. spectrometry; Flow system; Cationic surfactants; Waters; Indirect, With tetrathiocyanatocobaltate 215(1988)233

Flow system; At. abs. spectrometry; Preconcentration; C-18 bonded silica 216(1989)243

At. abs. spectrometry; Metal complexes; Ore; Palladium; Ammonium pyrrolidine dithiocarbamate, Methyl isobutyl ketone 217(1989)165

Spectrophotometry; Palladium 218(1989)111

Electrotherm. atomization; At. abs. spectrometry; Copper; Environmental samples; Lead 218(1989)173

Spectrophotometry; Hydrogen peroxide 218(1989)331

At. abs. spectrometry; Vanadium; Indirect 218(1989)341

Isotope dilut. analysis; Plants; Sulphur 219(1989)97

Spectrophotometry; Iron; Molten biphenyl/naphthalene 219(1989)171

Spectrophotometry; Fabric conditioners; Hair conditioners; Quaternary ammonium salts; Tertiary alkylamines 219(1989)239

Spectrophotometry; Molybdenum; Steels 219(1989)323

Liquid chrom.; Plutonium; Soils;  $\alpha$ -Spectrometry 220(1989)103

LithiumSodium; Synergic 220(1989)111

Flow system; Cylindrical cavity-type phase separator 220(1989)275

Alkaline earth metal ion; Crown complex 224(1989)47

Flow system; Spectrophotometry; Cobalt; Ethylenebis(triphenylphosphonium) cation 225(1989)123

Flow system; Spectrophotometry; Dichromate; Tetramethylenebis(triphenylphosphonium) cation 225(1989)241

Spectrophotometry; Hydroxyquinoline; Multicomponent analysis; Trace metals 226(1989)271

Bis(trimethylpentyl)phosphinic acid; Lanthanide 227(1989)397

Ion exchange; Environmental sample; Technetium 228(1990)163

Algorithm; Computer; Silver nitrate 228(1990)229

Flow system; Spectrophotometry; Crown ether; Lead; Preconcentration 230(1990)157

Metal ions; Liquid-liquid, Tris(2,6-dimethoxyphenyl)phosphine, Phosphonium salts 231(1990)107

Boron; Rocks; Isotopic ratios; Alkali fusion, Methyl borate distillation, Isotope dilution 231(1990)147

Flow system; Spectrophotometry; Rhenium; Crown ethers; Potassium perrhenate, Brilliant Green 232(1990)287

At. abs. spectrometry; Metal ions; Cobalt; Nickel; Zinc; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

At. abs. spectrometry; Heavy metals; Graphite furnace 232(1990)301

At. abs. spectrometry; Cobalt; Preconcentration; Liquid surfactant membranes; Graphite furnace, Liquid-liquid 232(1990)389

Chromatography; Spectrophotometry; Copper; Zinc; Cadmium; Preconcentration; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393



Liquid chrom.; Flow system; Liquid scintillation counting; Amino acids; Reversed-phase, Phenylthiohydantoin derivatives 233(1990)181

Flow system; Liquid chrom.; Spectrophotometry; Mass spectrometry; Organic pollutants; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119

Liquid chrom.; Amperometry; Spectrophotometry; Copper; Iron; Waters; Biological materials; Cupferron derivatization 235(1990)279

Flow system; Polyphenols; Olive oil; Iterative flow direction change 235(1990)441

Chromatography; Sample preparation; Pharmaceuticals; Pesticides; Biological samples; Serum; Blood 236(1990)99

Gas chromatography; Pharmaceuticals; Urine; Drugs of abuse, Column lifetime and performance, Fused-silica capillary columns 236(1990)115

Gas chromatography; Liquid chrom.; Organic acids; Biological fluids; Serum; Urine 236(1990)121

Gas chromatography; Mass spectrometry; Waters; Herbicides; Solid-phase extraction, Well water 236(1990)141

Gas chromatography; Liquid chrom.; Waters; Solid-phase extraction, Membrane, Filtration, Pesticides, Polychlorinated biphenyls, Phthalates 236(1990)157

Air; Sampling procedures; Organic volatiles; Pollution 236(1990)197

Activ. analysis; Gold; Waters; Gamma spectrometry; Tributylphosphate, Prospecting, Solid extract 236(1990)483

Kinetic analysis; Acetylacetone; Ethers; Mass transfer; Interfacial 237(1990)237

Spectrophotometry; Copper; Tetrathio ethers, cyclic; Liquid-liquid 237(1990)245

Spectrophotometry; Gold; Ores; Amidines; Methylene blue, Diphenylbenzamidine 237(1990)491

X-ray fluore. spectrometry; Germanium; Polyurethane foam; Molybdogermanate 238(1990)423

Flow system; Liquid chrom.; Caffeine; Zidovudine; Beverages; Food; Urine 239(1990)171

Lutetium; Phenylmethylaroylpyrazolones; Steric effect, *Ortho* substituents, Trioctylphosphine oxide 239(1990)277

Rhodium; Iridium; 4-(Non-5-yl)pyridine 242(1991)191

At. abs. spectrometry; Waters; Nickel; Preconcentration; Graphite furnace, Dithiocarbamate complex, Xylene 242(1991)209

X-ray fluore. spectrometry; Gold; Geological samples; Tributyl phosphate, Solid extractant 243(1991)81

At. abs. spectrometry; Bismuth; 2-(2-Benzoxazolyl)cianoacetaldehyde, 2-(2-Benzoxazolyl)malonaldehyde 244(1991)123

Anod. stripping voltammetry; Surfactants; Anionic, Ethylenediaminecopper extractant 244(1991)197

At. abs. spectrometry; Waters; Sea water; Separating funnels; Fluorinated ethylene-propylene, Dithiocarbamate-Freon-TF-extraction 245(1991)21

Spectrophotometry; Zirconium; Hafnium; Dicyclohexyl-18-crown-6; Crown ether 245(1991)27

Kinetic analysis; Palladium; Equilibrium, Mechanism 245(1991)225

Flow system; Copper; Segmenter; Continuous flow, Dual channel 245(1991)251

Gas chromatography; Fats; Lipids; Oils; Pesticides; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259

At. abs. spectrometry; Geological materials; Steels; Vanadium; Graphite furnace, Meteorites 246(1991)359

At. abs. spectrometry; Antimony; Waters; Lactic acid complex, Malachite Green ion pair, Graphite furnace 247(1991)7

At. abs. spectrometry; Arsenic; Steels; Waters; Graphite furnace, Arsenomolybdic acid 247(1991)13

Flow system; Phase separator; Coaxial, On-line, Benzyl alcohol, Carbon tetrachloride 247(1991)67

At. abs. spectrometry; Electrotherm. atomization; Tungsten hexafluoride; Trace metals; Trioctylamine 248(1991)235

Liquid chrom.; Polycyclic aromatic hydrocarbons; Supercritical fluid extraction; Supercritical fluid chromatography, Microextractor cell geometry 248(1991)263

Voltammetry; Liquid chrom.; Food dyes; Dynamic column solid-phase extraction 248(1991)289

Computer-calculated extraction curves; Ion pairs; Extraction constants, Dissociation constants 248(1991)473

Computer-calculated extraction curves; Ion pairs; Extraction constants, Dissociation constants 248(1991)483

Flow system; Spectrophotometry; Partition coefficients; Octan-1-ol-water 248(1991)493

Cinchona alkaloids; Usnic acid optical isomers, Metal complexes 248(1991)501

Spectrophotometry; Vanadium; Adogen-464, Adipate complex 248(1991)507

Copper; Liquid-liquid, Cyclic and acyclic thioethers 248(1991)511

Spectrophotometry; Membrane filtration; Niobium; Phenylfluorone complex, Zephiramine 248(1991)529

At. abs. spectrometry; Nickel; Zinc; Bis(4-acylpyrazol-5-one) derivative extractants, Liquid-liquid, Polymethylene chain length, Steric effects, Tri-*n*-octylphosphine oxide synergist 249(1991)525

# **Extraction constant**

Generalized form, Metal chelate 218(1989)323

# **Extraction solvents**

Chromatography; Sample preparation; Ethylammonium nitrate; Propylammonium nitrate; Liquid-liquid extraction, Proton donors 236(1990)51

# **Eye cataracts**

Pattern recognition; Trace metals 242(1991)11



# F

## Fabric conditioners

Spectrophotometry; Extraction; Hair conditioners; Quaternary ammonium salts; Tertiary alkylamines 219(1989)239

## Factor analysis

Lanthanide complexation; Erbium; Polyimide film; Circular dichroism spectroscopy; Kalman filter 246(1991)1

Chromatography; Peak purity control 246(1991)379

Titrimetry; Algorithm; Copper complexes; Multi-equilibria systems 248(1991)447

Liquid chrom.; Calibration; Kalman filter; Multi-wavelength detection; Rank annihilation 250(1991)37

## Factorial design

Spectrophotometry; Hydrogen peroxide; Oxalic acid 223(1989)283

## Faradaic transient

Amperometry; Concentration, Temperature, Chronoamperometry 226(1989)337

## Fast atom bombardment

Mass spectrometry; Cyclic nucleotides 247(1991)177

Mass spectrometry; Ribomononucleotides (isomeric) 247(1991)187

## Fast scans

Cyclic voltammetry; Flow system 211(1988)287

## Fats

Phosphorimetry; Biacetyl; Room temperature 227(1989)319

Gas chromatography; Extraction; Lipids; Oils; Pesticides; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259

## Fatty acid esters

Mass spectrometry; Collision-induced dissociation, *B/E* linked scans 246(1991)187

## Fatty acid sensor

Amperometry; Immobilized enzymes 220(1989)251

## Feces

Gas chromatography; Mass spectrometry; Carboxylic acids, short chain; Ion-trap detector 247(1991)223

## Fenitrothion

Flow system; Amperometry; Pesticides; Fenitrothion 209(1988)205

## Fenthion

Flow system; Amperometry; Pesticides; Fenitrothion 209(1988)205

## Fenton's reagent

Chemiluminescence; Flow system; Amines; Amino acids; Schiff bases; Phenylacetaldehyde, Sodium bis(2-ethylhexyl)sulphosuccinate reversed micellar solution 247(1991)27

## Fermentation

Fluorimetry; Microorganisms; Immobilized 213(1988)47

Flow system; Fluorimetry; Phenylalanine 213(1988)55

Gas chromatography; Acetaldehyde; Ethyl acetate; Fusel alcohols; Gas-permeable membrane; Alcoholic fed-batch 213(1988)231

Amperometry; Electron mediator; Glucose; Enzyme electrode 222(1989)75

Flow system; Biosensor; Enzyme electrode; Modified graphite electrode, Glucose dehydrogenase, Glucose 235(1990)265

Flow system; Sugars; Lactic acid; Protein; Biomass; Enzyme reactor; On-line 237(1990)165

Spectrophotometry; Chemiluminescence; Flow system; Biomass; Glucose; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

Flow system; Fluorimetry; Biosensors; Field-effect transistors; Process analysis; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

Biosensors; Sampling system; Coaxial catheter, Sterile monitoring, Glucose, Lactate, Blood 249(1991)61

Flow system; Spectrophotometry; Bioprocess monitoring; Glucose ammonia proteins; Process analysis; Diode-array, Stopped-flow 249(1991)77

Liquid chrom.; Flow system; Process monitoring 249(1991)87

Spectrophotometry; Flow system; Acetate; Phosphate; Process analysis; *E. coli* 249(1991)101

Flow system; Turbidimetry/nephelometry; Bioprocess monitoring; Process analysis; Proteins; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113

Flow system; Bioreactors; Membrane modules; Penicillin fermentation; Process monitoring; Ammonium, Glucose 249(1991)123

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Immunoassay; Insulin; Genetic engineered human insulin, Downstream processing 249(1991)271

Fluorimetry; Bacterial cultures; Mathematical models; Physiological state; Process analysis; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

## Fermentation broths

Gas chromatography; Volatile metabolites 213(1988)11

Potentiometry; Enzyme electrodes; Milk; Penicillin; Glass pH electrode, Penicillinase 249(1991)405

## Fermentation gas analysis

Mass spectrometry; Error analysis; Process analysis; Poly- $\beta$ -hydroxybutyrate, *Alcaligenes latus*, *Bacillus subtilis* 238(1990)101

## Fermentation media

Spectrophotometry; Kinetic analysis; Ethanol; Glucose; Enzymatic 213(1988)61

H.p.l.c.; Ion exchange; Organic acids; Short glass columns 213(1988)227

**Fermentation of whey**

H.p.l.c.; Sugars; On-line, Ultrafiltration 204(1988)127

**Fermentation processes**

Amperometry; Potentiometry; Microbiological sensors; Review 213(1988)69

Raman spectrometry; Ethanol; Fructose; Glucose; Fibre-optic system 215(1988)211

**Fermentor monitoring**

Flow system; Amperometry; Chemically sterilizable barrier; Glucose; Oxygen 216(1989)299

**Fermentors**

Conductometry; Ethanol probe; Membrane gas sensor 215(1988)71

**Ferrocene**

Cyclic voltammetry; Electrode kinetics; Micro-electrode 225(1989)83

Potentiometry; Ion exchange; Glucose; Glucose oxidase; Siloxane polymer 228(1990)23

Amperometry; Glucose; Glucose oxidase; Carbon-paste electrode 228(1990)251

**Ferrocenylalkanethiols**

Cyclic voltammetry; Alkanethiols; Gold electrode; Mixed monolayer films 246(1991)233

**Ferroin**

Flow system; Kinetic analysis; Ion-pair extraction 224(1989)169

 **$\alpha$ -Fetoprotein**

Immunoassay; Amperometry; Enzyme; Immunocomplex; Biosensor 222(1989)235

Immunoassay; Kinetic analysis; Immunoglobulin G; Placental lactogen; Fluoride ion-selective electrode 224(1989)329

**Fibre optics**

Fluorimetry; Reflectance spectrometry; In situ; Poly(vinyl chloride); Sensor; Trinitrotoluene 221(1989)1

Fluorimetry; Photodiode array 224(1989)235

Flow system; Biosensor; Fruit juice; Glucose; Wine 225(1989)293

Chemiluminescence; Flow system; NADH; Sensor; Bioluminescence 226(1989)331

Fluorimetry; Immunoassay; Biosensor; Phenytoin 227(1989)135

Fluorimetry; Ammonia; Biosensor; Urea 227(1989)387

Fluorimetry; Liquid chrom.; Amino acid; Laser-induced 229(1990)3

Spectrophotometry; Titrimetry; pH; Sensor; Acid-base 230(1990)35

I.r. spectrometry; Fuel quality; Multivariate calibration; Process analysis; Gasoline; Diesel fuel; Octane number, Cetane number 238(1990)95

**Fibre-optic chemical sensors**

Fluorimetry; Pressurized membrane indicator 217(1989)249

Spectrophotometry; Cyanide; Metalloporphyrins; Corrins 241(1990)119

**Fibre-optic sensors**

Fluorimetry; Oxygen; Decay time 205(1988)1

Fluorimetry; Air; Sulphur dioxide 208(1988)53

Fluorimetry; Carbon dioxide 219(1989)223

Fluorimetry; Gas sensor; Ammonia; Serum; Fluoresceins 231(1990)231

Ion-selective electrodes; Ion-sensitive field effect transistor; Ionophores; Sodium; Blood; Serum; Lipophilic, 1,2-Phenylenedioxydiacetamides 233(1990)295

Flow system; Chromatography; Optosensing; Ammonia; Phosphate; Thin-layer detector 234(1990)31

Flow system; Lactic acid; Biosensor; Dairy fermentation; Kefir culture; Immobilized lactate oxidase 234(1990)107

Flow system; Chemiluminescence; ATP; NADH; Enzyme system; Polyamide membrane 235(1990)243

Immunoassay; Fluorimetry; Biosensor; Benzo[a]pyrene tetraol; Laser excitation 236(1990)237

Fluorimetry; Cyclodextrin; Immobilized, Inclusion complex, Anilinonaphthalene sulphonates 237(1990)485

Fluorimetry; Immune reactions; Antigens, Antibodies, Evanescent wave detection, Skew rays 238(1990)317

Chemiluminescence; Biosensors; Enzyme-catalysed reactions; Self-contained, Entrapped co-reactant 243(1991)149

Fluorimetry; Immunosensors; Haptens;  $F_{(ab')}$  antibody fragments 246(1991)55

Spectrophotometry; Air; Hydrogen cyanide; Automatic detection, Light-emitting diodes 246(1991)259

Flow system; Fluorimetry; Biosensors; Foods; Glutamate; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351

Fluorimetry; Polymer swelling; Salt concentrations; Optical displacement, Sulphonated dextran, Sulphonated polystyrene 249(1991)373

Amperometry; Immunoassay; Biosensors; Enzyme electrodes; Immunosensors; Bioaffinity, Biocatalytic 250(1991)249

**Fibres**

I.r. spectrometry; Fourier transform; Chalcogenide; Surface modification 240(1990)125

**Fibrinogen**

Piezoelectric sensing; Quartz-crystal gelation detector 217(1989)321

**Field monitor**

Spectrophotometry; Flow system; Ammonia; Waters 214(1988)401

Flow system; Spectrophotometry; Nitrate; River water 227(1989)379

**Field-effect transistors**

Potentiometry; Hypoxanthine sensor; Uric acid; Amorphous silicon 215(1988)301

Gas chromatography; Ethylene; Fruits; Semiconductors 231 (1990)93

Glucose; Enzyme membrane; Co-immobilization, Glucose oxidase, Gluconolactonase 231(1990)213

Flow system; Biosensor; Glucose; Urea; Penicillin; Cephalosporin C; Process analysis 238(1990)201

Flow system; Fluorimetry; Biosensors; Fermentation; Process analysis; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

### Field-flow fractionation

Crossflow hydrodynamics; Retention ratio; Reynolds number, Analyte transport 246(1991)161

### Film balance

Kinetic analysis; Langmuir-Blodgett films; Process analysis; Proteins; Air/water interface, Multi-compartment trough,  $\beta$ -Lactoglobulin 249(1991)241

### Film reactor

Flow system; Conductometry; Waters; Organic pollutants; Titanium dioxide; Immobilized 231(1990)13

### Filters

H.p.l.c.; Ethenethiourea; Urine; Occupational hygiene 212 (1988)297

### Fire assay

At. abs. spectrometry; Geological materials; Palladium; Rhodium; Platinum; Rocks; Nickel sulphide 246(1991)365

### Fires

Gas chromatography; Arson; Sample preparation, Headspace analysis, Liquid-liquid extraction, Adsorption/elution, Distillation 236(1990)183

### First-order decay of an absorbing species

Spectrophotometry; Data-acquisition schedules; Optimization 204(1988)295

### Fish

Pattern recognition; Mullet species discrimination, Classification, Prediction, Biometric and chemical variables 233(1990)143

Liquid chrom.; Waters; Organic pollutants; Cytotoxicity; In vitro 234(1990)193

At. abs. spectrometry; Hydride generation; Lead; Waters; Wine; Vegetable; Foods; Potassium dichromate 237(1990)181

Amperometry; Biosensors; Enzyme electrodes; Hypoxanthine; Foods; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161

At. abs. spectrometry; Foods; Lead 246(1991)375

Gas chromatography; Biological samples; Mercury; Organomercury halides; Speciation; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

### Fish meat

Polarography; Biosensor; Hypoxanthine; Xanthine oxidase 221(1989)215

### Flame

At. abs. spectrometry; Iron; Nickel; Cobalt; Molybdenum; Catalysts; Petroleum; Microwave oven digestion, Slurry 235 (1990)405

### Flavin mononucleotide

Flow system; Chemiluminescence; Chromium; Cationic micellar surfactant modifier, Hydrogen peroxide 232(1990)385

### Flavins

H.p.l.c.; Fluorimetry; Waters; Solid-phase ion-pair extraction 201(1987)127

Liquid chrom.; Vitamins; Two-electrode amperometric detection 239(1990)29

### Flavocytochrome $b_2$

Potentiometry; Enzyme electrodes; Lactate; Reagentless, Electrocatalytic oxidation 243(1991)167

### Flavonoids

Liquid chrom.; Copper; Catechin; Electrochemical detection 232(1990)377

### Flotation

Spectrophotometry; Osmium; Crystal Violet, Malachite Green 242(1991)185

### Flotation separation

Spectrophotometry; Dinitrocatechol; Niobium; Oxalate; Rhodamine B 226(1989)281

### Flow cells

Flow system; Ion-selective field-effect transistors; Wall jet cell, Flow-through cell, ISFET, CHEMFET 248(1991)307

### Flow cytometry

Immunoassay; Electrophoresis; Antibody expression; Enzyme-linked immunosorbent assay; Hybridoma cells; Monoclonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

### Flow gradient

Flow system; Spectrophotometry; Unsegmented flow, Concentration gradient, Metal complexes, Acidity constants 239 (1990)211

### Flow microcalorimetry

Thermom. analysis; Aerobic and anaerobic wastewater-treatment; Biological activity 213(1988)165

### Flow reactor

I.r. spectrometry; Gas cell; Methylchlorosilane; Silicon 222 (1989)221

### Flow-through porous electrodes

Mass-transfer coefficients for cylinders and spheres; Theoretical expressions 215(1988)295

Preconcentration; Metal ions; Mathematical model 232(1990)401

### Flunitrazepam

Raman spectrometry; I.r. spectrometry; Benzodiazepines; Nitrazepam; Nimetazepam; Clonazepam; Fourier transform 240(1991)287

**Fluorescamine**

Fluorimetry; Liquid chrom.; Phthalaldehyde; Triton; Cycloextrin; Pharmaceuticals 234(1990)187

**Fluorescein**

Fluorimetry; Dichlorofluorescein; Variable-angle spectrometer, Simultaneous determination 233(1990)159

**Fluorescein-labelled albumin**

Flow system; Fluorimetry; Protease; Fluoromethylpyridinium salt 230(1990)131

**Fluorescence enhancement**

Fluorimetry; Europium; Terbium, Phenanthroline, Benzoyl-acetone 238(1990)307

**Fluorescence microscopy**

Fluorimetry; Enzyme reaction; Lipid membrane; Transduction; Nitrobenzoxadiazolephosphatidylethanolamine fluorophore, Acetylcholinesterase, Acetylcholine substrate 237(1990)253

**Fluorescence polarization**

Fluorimetry; Kinetic analysis; DNA hybridization kinetics; Labelled oligonucleotides, Mismatches 244(1991)207

**Fluorescence quenching**

Chromatography; Polynuclear aromatic hydrocarbons; Nitromethane 246(1991)65

**Fluoride**

H.p.l.c.; Acetate; Ammonium; Antarctic ice; Formate; Methanesulphonate 203(1987)11

Spectrophotometry; At. abs. spectrometry; Extraction; Sulphide; Phosphate 208(1988)313

Flow system; Spectrophotometry 214(1988)433

Flow system; Spectrophotometry; Waters 219(1989)329

Potentiometry; Ores; Slags; Direct fusion 219(1989)335

Fluorimetry; Optical-fibre sensor 220(1989)75

Gas chromatography; Alkylsilane; Blood serum 222(1989)121

Potentiometry; Concentration cell; Standard addition 225(1989)97

At. abs. spectrometry; Aluminum; Matrix modifier; Graphite furnace 225(1989)233

Flow system; Fluorimetry; On-line; Ternary complex; Calcein blue, Zirconium 230(1990)137

Flow system; Fluorimetry; Zirconium-Calcein Blue-fluoride complex, Sensor 234(1990)345

Potentiometry; Ion-selective electrodes; Waters; Complementary metal oxide semiconductor device, Automated monitor, Battery operated 237(1990)345

**Fluoride-selective electrode**

Potentiometry; Flow system; Horseradish peroxidase; Milk; Turnip extract 208(1988)173

Potentiometry; Computerized instrument; Waters; Battery-powered, Field-based, Metal-oxide semiconductor 208(1988)195

**Fluorine**

Potentiometry; H.p.l.c.; Coal; Minerals; Pyrohydrolysis 202(1987)61

Potentiometry; Plants; Vegetables; Open-flame ashing, Microdiffusion 212(1988)133

**Fluoromethane**

I.r. spectrometry; Submillimetrewave spectroscopy; Pure rotational transitions, Acoustic detection 240(1990)167

**Fluoronitro benzoxadiazole**

Fluorimetry; Chinese hamster; Ovary cell; Phthalaldehyde 223(1989)299

**Fluoropyrimidines**

Chemiluminescence; Liquid chrom.; Coumarin derivatization reagents 239(1990)181

**Fluorouracil**

H.p.l.c.; Amperometry; Pharmaceuticals; Serum; Anodic 207(1988)183

**Foam flotation-separation**

Ozone generation; Oxidation reactions; Cerium; Mini ozonizer 238(1990)427

**Fodder plants**

Pattern recognition; Animal feeds; Rumen bacteria; Enzymatically changed, Genetic varieties 213(1988)177

**Food chemistry**

Principal components; Pattern recognition; Data bank 223(1989)223

**Food dyes**

Voltammetry; Liquid chrom.; Extraction; Dynamic column solid-phase extraction 248(1991)289

**Food extract**

Electrophoresis; Metal-protein complex; Flow-through, Flat-bed 230(1990)1

**Food flavours**

Data base; Identification, Production control 235(1990)215

**Foods**

Flow system; Enzyme reactor; Fructose; Glucose 202(1987)199

Spectrophotometry; Phosphate; Stopped-flow, Time-difference 203(1987)35

H.p.l.c.; Voltammetry; Disaccharides; Monosaccharides; Physiological fluids; Electrochemical modified electrode 206(1988)85

Electrotherm. atomization; At. abs. spectrometry; Molybdenum 219(1989)79

Flow system; Spectrophotometry; Carboxylic acid; Soil; Citric acid 221(1989)19

Fluorimetry; Micelle; Zinc 227(1989)219

Liquid chrom.; Time-domain differentiation; Computerized peak resolution; Propyl gallate; Butylhydroquinone; Antioxidants 234(1990)263

Spectrophotometry; Kinetic analysis; Nitrite; Water; Sausage, Potassium bromate, Thionine 234(1990)403

Isotope dilut. analysis; Manganese; Biological samples; Spices; Thenoyltrifluoroacetone complex 234(1990)445

Spectrophotometry; Enzyme reaction; Aspartame; Peptidase cleavage, Glutamate oxidation 234(1990)465

Mass spectrometry; Isotope dilut. analysis; Lead; Pineapple; Isotope systematics; Soldered cans, Welded cans, Clean laboratory 235(1990)367

Chromatography; Pesticides; Sample preparation; High fat 236(1990)77

Diff. pulse polarography; Amino acids; Serum; Schiff's base, Borax buffer, Acetaldehyde 236(1990)307

At. abs. spectrometry; Hydride generation; Lead; Fish; Waters; Wine; Vegetable; Potassium dichromate 237(1990)181

Flow system; Liquid chrom.; Extraction; Caffeine; Zidovudine; Beverages; Urine 239(1990)171

Amperometry; Flow system; Glucose; Soft drinks; Enzyme electrodes; Hydrogen peroxide, Membrane 242(1991)91

Amperometry; Ascorbic acid; Printed strip electrochemical sensor; Graphite, Tetracyanoquinodimethane modifier 243(1991)173

Amperometry; Biosensors; Enzyme electrodes; Hypoxanthine; Fish; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161

Mass spectrometry; Plasmas; Lithium; Biological samples; Serum; Inductively coupled, Standard Reference Materials 244(1991)259

Potentiometry; Iron; Derivative adsorption, 2-(5'-Bromo-2'-pyridylazo)-5-dimethylaminophenol 245(1991)77

At. abs. spectrometry; Fish; Lead 246(1991)375

Amperometry; Biosensors; Enzyme reactor; Sucrose; Yeast cell walls; Invertase, Mutarotation, Phosphate 247(1991)83

Mass spectrometry; Gas chromatography; Honey; Pentachlorophenol; Sep-Pak extraction 247(1991)121

Flow system; Fluorimetry; Biosensors; Fibre-optic sensor; Glutamate; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

## Forests

Waters; Humic substances; Soils; Fractionation: XAD-8 hydrophobic resin 232(1990)3

## Formaldehyde

Spectrophotometry; Using formaldehyde dehydrogenase 215(1988)249

Amperometry; Enzyme reactor; Dehydrogenase, Hexacyanoferrate(III), NADH 233(1990)59

Kinetic analysis; Spectrophotometry; Multi-component analysis; Acrolein; Wavelength-pair method, Diode-array detection 244(1991)81

## Formate

H.p.l.c.; Acetate; Ammonium; Antarctic ice; Fluoride; Methanesulphonate 203(1987)11

## Formate dehydrogenase activity

Flow system; Fluorimetry; Cell permeabilization; Intracellular enzyme activity; Yeast cells; *Candida boidinii* 248(1991)371

## Formation constants

Liquid chrom.; Polynuclear aromatic hydrocarbons; Cyclodextrin complexes; Solubility; Non-inclusional association, Temperature dependence 232(1990)239

I.r. spectrometry; Kinetic analysis; Amine complexes; Aniline complexes; Fourier transform, Organic acceptors, Tetracyanoethylene, Fluoranyl 240(1991)347

Spectrophotometry; Copper chelates; Stereoselective adduct formation,  $\alpha$ -Acylcamphorato chelates, Chiral Lewis bases 244(1991)289

## Formebolone metabolism

Gas chromatography; Mass spectrometry; Steroids, anabolic 247(1991)211

## Formic acid

Kinetic analysis; Oxalic acid; Gasometric 212(1988)303

Chemiluminescence; Waters; Sea water; Enzyme bioluminescence reaction 231(1990)299

## Formylaminoethanol

Mass spectrometry; Bioorganic molecules; Oligosaccharides; Peptides; Fast atom bombardment, Matrix 241(1990)219

## Förster energy transfer

Fluorimetry; Calmodulin; Protein dynamics; Transferrin 205(1988)161

## Fourier transform

Mass spectrometry; Molecular weight; Tandem quadrupole 225(1989)1

Mass spectrometry; Dual-cell geometry; Ion cyclotron resonance 225(1989)11

Mass spectrometry; Surfactant; Textiles; Laser desorption 228(1990)169

I.r. spectrometry; Langmuir-Blodgett films; Phospholipid; Valinomycin; ISFET; Potassium; Structural characterization, Micro-ATR 240(1990)29

I.r. spectrometry; Polyimide films; Silicon electronic devices; Langmuir-Blodgett films; Attenuated total reflectance 240(1990)81

I.r. spectrometry; Chalcogenide; Fibres; Surface modification 240(1990)125

I.r. spectrometry; Alumina; Photo-induced interaction; Rhenium; Hydroxylated alumina surface 240(1990)211

I.r. spectrometry; Rhenium; Alumina; Hydroxylated alumina surface 240(1990)215

## Fourier-transform filter

Spectrophotometry; Polynomial filter; Savitzky-Golay filter 222(1989)335

Chromatography; Signal-to-noise ratio 248(1991)441



**Free acidity**

Flow system; Titrimetry; Oil 225(1989)431

**Free chlorine**

Spectrophotometry; Chlorine species; Acid Yellow 17, *N,N*-Diethyl-*p*-phenylenediamine, Leuco crystal violet 249(1991)519

**Fructose**

Flow system; Enzyme reactor; Foods; Glucose 202(1987)199

Raman spectrometry; Ethanol; Fermentation process; Glucose; Fibre-optic system 215(1988)211

Flow system; Amperometry; Glucose isomerase; Immobilization 224(1989)31

Fluorimetry; Flow system; Enzyme reactor; Mannitol dehydrogenase 243(1991)183

**Fruit juices**

Flow system; Biosensor; Fibre-optic; Glucose; Wine 225(1989)293

Gas chromatography; Isocitric acid; Malic acid; Citric acid; Lemon juice; Adulteration, Acyl esters 239(1990)165

Fluorimetry; Kinetic analysis; Ascorbic acid; Vitamin pills; *o*-Phenylenediamine 243(1991)89

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

**Fruits**

Gas chromatography; Ethylene; Field effect transistor; Semiconductors 231(1990)93

**Fuberidazol**

Fluorimetry; Carbaryl; Pesticide mixture; Warfarin; Variable-angle scanning 228(1990)293

**Fuel oils**

Electrotherm. atomization; Spectrophotometry; Sulphur; Carbon sulphide molecules 201(1987)59

**Fuel quality**

I.r. spectrometry; Fibre optics; Multivariate calibration; Process analysis; Gasoline; Diesel fuel; Octane number, Cetane number 238(1990)95

**Fuels**

Mass spectrometry; Polar compounds; Methanol chemical-ionization 211(1988)83

**Fulvic acid equilibria**

Anod. stripping voltammetry; Copper; Labile metal fraction; Lead; Sampled-d.c. 211(1988)141

**Fulvic acids**

N.m.r. spectrometry; Mass spectrometry; Humic substances; Soils; Waters; Isotope ratios; Amino acid analysis 232(1990)19

Spectrophotometry; Fluorimetry; I.r. spectrometry; N.m.r. spectrometry; Laurentian, Colour origin 232(1990)43

E.s.r.; Paramagnetic metal ions 232(1990)51

Fluorimetry; Paramagnetic metal ions 232(1990)77

Vapour-pressure osmometry; Molecular weight, Aggregation 232(1990)123

Humic substances; Iron; Copper; Ultrafiltration; Metal-humate interactions 232(1990)171

Liquid chrom.; Atrazine; Ultrafiltration; Laurentian, Binding, Hydrolysis 232(1990)181

Voltammetry; D.c. polarography; Metal-fulvic complexes; Complexants; Diffusion coefficient, Distribution function 232(1990)209

Metal-fulvic complexes; Complexants; Buffering action, Background sites 232(1990)225

Activ. analysis; Chromium; Waters; Gamma counting 236(1990)357

Liquid chrom.; Atrazine; Humic acid; Herbicides; Laurentian, Ultrafiltration 244(1991)135

Anod. stripping voltammetry; Copper complexes; Humic acids; 1-(2-Pyridylazo)-2-naphthol, 8-Quinolol 248(1991)95

**Fumed silica**

Diff. pulse voltammetry; Anod. stripping voltammetry; Lead; Urine 237(1990)177

**Function of mutual information**

Liquid chrom.; Optimization; Capacity factor, Mobile-phase 222(1989)301

Liquid chrom.; Antipyretic; Kalman filter; Mobile phase 222(1989)313

**Fungi**

Flow system; Amperometry; Microorganisms; Microbiological sensor; Bacteria; *Escherichia coli* 234(1990)247

**Fungicide**

Flow system; Spectrophotometry; Malachite green; Manganese ethylenedisithiocarbamate; Periodate 222(1989)269

**Furazolidone**

Spectrophotometry; Metronidazole; Tablets, *K*-matrix method 249(1991)349

**Fusel alcohols**

Gas chromatography; Acetaldehyde; Ethyl acetate; Fermentation; Gas-permeable membrane; Alcoholic fed-batch 213(1988)231

**Fuzzy classification**

N.m.r. spectrometry; Pheromones; Dienes; Configurations; <sup>13</sup>C chemical shifts 233(1990)223

**Fuzzy theory**

Review, Chemical applications 235(1990)169

Surface analysis; Homogeneity, Depth profiles 239(1990)61



# G

## Galactosamine complexes

D.c. polarography; Glucosamine complexes; Cobalt, Nickel, Copper 207(1988)85

## Galactose

Amperometry; Glucose biosensor 218(1989)137

## Galacturonic acid

Bentonite clay; Iron 226(1989)315

Spectrophotometry; Chromium; Reduction, Complexes, Stability constants 248(1991)301

## Gallamine

Potentiometry; Ion-selective electrodes; Membrane electrodes; Pharmaceuticals; Pancuronium; Tubocurarine; Succinylcholine; Muscle relaxants 238(1990)405

## Gallium

Fluorimetry; Synchronous derivative 218(1989)167

## Gallium arsenide

Potentiometry; Titrimetry; Semiconductors; Stoichiometry; Arsenic 244(1991)247

## Gallium trichloride

At. abs. spectrometry; Trace elements; Volatilization; Electrothermal atomization 226(1989)193

## Gamma irradiation

Amperometry; Enzyme electrodes; Lactate; Poly(vinyl alcohol); Lactate oxidase, Platinized graphite, Hydrogen peroxide 243(1991)23

## Gamma spectrometry

Activ. analysis; Gold; Waters; Extraction; Tributylphosphate, Prospecting, Solid extract 236(1990)483

## Gangliosides

Bovine brain tissue; DNA probes; Pharmaceuticals; Quality control; Dot-blot hybridization 249(1991)291

## Gas cell

I.r. spectrometry; Flow reactor; Methylchlorosilane; Silicon 222(1989)221

## Gas detection

Flow system; Amperometry; Air; Alcohols; Enzyme reactor; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379

Flow system; Amperometry; Potentiometry; Air; Chlorine; Hydrogen chloride; Continuous monitoring 248(1991)391

## Gas diffusion

Flow system; Ion exchange; At. abs. spectrometry; Emission spectrometry; Extraction; On-line separation; Preconcentration 214(1988)41

Flow system; Conductimetry/oscillometry; Nitrogen; Waters; Ammonia, Nitrate, Nitrite 245(1991)183

## Gas sensor

Potentiometry; Control chart; Semiconductor 225(1989)89

Fluorimetry; Ammonia; Serum; Fibre-optic sensor; Fluoresceins 231(1990)231

## Gas sensor array

Pattern recognition; Multivariate Techniques 242(1991)31

Gas chromatography; Pattern recognition; Liquor aromas; Headspace concentration; Semiconductor 243(1991)293

## Gas treatment

Titrimetry; Ion exchange; Chromatography; Process analysis; Sulphur; Thiols; Automated titrator 238(1990)161

## Gas-diffusion flow-injection

Flow system; Spectrophotometry; Optimization 209(1988)157

## Gas-diffusion membrane

Flow system; Amperometry; Ethanol; Beverages; Enzyme reactor; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213

## Gas-diffusion separation

Flow system; Spectrophotometry; Ion exchange; Ammonium ions 214(1988)121

Flow system; Potentiometry; Cyanide; Silver-wire electrode; Membrane barrier, Selectivity 233(1990)77

## Gas-permeable membrane

Gas chromatography; Acetaldehyde; Ethyl acetate; Fermentation; Fusel alcohols; Alcoholic fed-batch 213(1988)231

## Gas-permeable tubular membrane

Potentiometry; Ammonia 219(1989)309

## Gaseous samples

Flow system; Flow direction 224(1989)127

## Gases

Mass spectrometry; Theoretical aspects, Calibration 201(1987)241

Opto-acoustic spectroscopy; Sulphur dioxide; Ultraviolet laser 218(1989)101

Solubility; Henry's law 238(1990)257

Opto-acoustic spectrom.; Adsorption isotherms; Humidity correction algorithm; Surface acoustic wave sensors 248(1991)337

## Gasoline

Flow system; Emission spectrometry; Lubricating oil; Flame 234(1990)439

I.r. spectrometry; Fuel quality; Fibre optics; Multivariate calibration; Process analysis; Diesel fuel; Octane number, Cetane number 238(1990)95

## Gauss-Newton method

Ionization constant; Polyprotic acid 222(1989)359

## Genetic variant

Chemiluminescence; Infectious agent 227(1989)1

**Geological materials**

Emission spectrometry; Extraction; Plasmas; Silver 207(1988)171

Spectrophotometry; Ion exchange; Boron 211(1988)243

Isotope dilut. analysis; Mass spectrometry; Emission spectrometry; Rubidium 229(1990)157

Mass spectrometry; Plasma; Laser ablation; Rocks; Minerals; Inductively coupled 235(1990)381

At. abs. spectrometry; Extraction; Steels; Vanadium; Graphite furnace, Meteorites 246(1991)359

At. abs. spectrometry; Fire assay; Palladium; Rhodium; Platinum; Rocks; Nickel sulphide 246(1991)365

Emission spectrom.; Gold; Plasmas; D.c. argon plasma 248(1991)569

Activ. analysis; Gold; Microwave sublimation; Ores; Helium-oxygen plasma 248(1991)579

Emission spectrom.; Spectrophotometry; Plasmas; Silica; Centrifugation, Differentiation of colloidal and dissolved silica, Filtration, Inductively coupled, Tuffs 249(1991)509

**Geological samples**

Ion exchange; Emission spectrometry; Gold; Palladium; Plasmas; Platinum 201(1987)95

Spectrophotometry; Barium; Extraction 206(1988)363

H.p.l.c.; Emission spectrometry; Plasmas; Rare-earth elements; Inductively-coupled 207(1988)149

Emission spectrometry; Liquid chrom.; Plasmas; Rare earth elements; Inductively-coupled, Oxalate coprecipitation, Cation-exchange 208(1988)163

Spectrophotometry; Flow system; Ion exchange; Preconcentration; Uranium 214(1988)279

I.r. spectrometry; Talc 217(1989)353

Isotope dilut. analysis; Mass spectrometry; Uranium 228(1990)333

At. abs. spectrometry; Gold; Palladium; Platinum; Rhodium; Silver; Selenium; Tellurium; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

Ion exchange; Zirconium vanadophosphate 235(1990)435

Fluorimetry; Uranium; Waters; Time-resolved laser-induced, Complexing media, Mineral phase 238(1990)291

X-ray fluo. spectrometry; Gold; Extraction; Tributyl phosphate, Solid extractant 243(1991)81

Molybdenum; Visual comparison 244(1991)245

Spectrophotometry; At. abs. spectrometry; Rocks; Microwave acid digestion 245(1991)43

**Germanate**

Chromatography; Ion exchange; Arsenate; Phosphate; Silicate; Molybdenum blue reaction, Post-column detection 249(1991)539

**Germanium**

Spectrophotometry; Rocks; Adsorption on Sephadex 209(1988)333

Spectrophotometry; Phenylfluorone 221(1989)183

At. abs. spectrometry; Hydride generation; Meteorite 228(1990)139

Emission spectrometry; Hydride generation; Interference 229(1990)239

X-ray fluo. spectrometry; Polyurethane foam; Extraction; Molybdo-germanate 238(1990)423

**Germanium compounds**

Emission spectrom.; Plasmas; Inductively coupled 247(1991)1

**Glass ceramics**

At. abs. spectrometry; Experimental design; Titanium; Nitrous oxide/acetylene 203(1987)55

**Glass electrode**

Voltammetry; Autopotolysis constant; Acetonitrile; Standardization, Solvent composition, E.m.f. 244(1991)183

**Glass technology**

Principal components; Pattern recognition; Photochromic material 223(1989)247

**Glass-covered samples**

I.r. spectrometry; Diffuse reflectance; Hydrogen spillover; Zeolite; Fourier transform, Water formation 240(1991)363

**Glass-making**

Principal components; X-ray fluo. spectrometry 225(1989)69

**Glassy carbon electrodes**

Voltammetry; Review; Surface preparation 207(1988)1

Cyclic voltammetry; Redox species; Electrochemical oxidation 243(1991)43

Cyclic voltammetry; Amperometry; Flow system; Microelectrode arrays; TTF-TCNQ, Hydroquinone, Dopamine, Ascorbic acid 246(1991)315

Mass spectrometry; X-ray fluo. spectrometry; Scanning electron microscopy; Surface analysis; Electrochemical modification, Solid-state characterization 248(1991)127

Amperometry; Cyclic voltammetry; Electropolymerization; Polymer-coated electrodes; Resole prepolymer mixtures; Continuous-flow sensing 249(1991)395

**Glucosamine complexes**

D.c. polarography; Galactosamine complexes; Cobalt, Nickel, Copper 207(1988)85

**Glucose**

Amperometry; Enzyme electrodes 201(1987)281

Flow system; Enzyme reactor; Foods; Fructose 202(1987)199

Amperometry; Flow system; Lactic acid; Plasma; Computer-controlled 209(1988)231

Flow system; Spectrophotometry; Alcoholic beverages; Enzyme reactor; NADPH formed 211(1988)281

Spectrophotometry; Kinetic analysis; Ethanol; Fermentation media; Enzymatic 213(1988)61

Voltammetry; Electromagnetic entrapment of biocatalyst; Enzyme electrode; Magnetic beads 213(1988)121

Flow system; Spectrophotometry; Plasma 214(1988)455

Raman spectrometry; Ethanol; Fermentation process; Fructose; Fibre-optic system 215(1988)211

Flow system; Amperometry; Chemically sterilizable barrier; Fermentor monitoring; Oxygen 216(1989)299

Flow system; Spectrophotometry; Enzyme reactor; Characterization of activity 218(1989)291

Fluorimetry; Biosensor; Glucose oxidase 221(1989)195

Amperometry; Electron mediator; Fermentation; Enzyme electrode 222(1989)75

Chemiluminescence; Amino acid; Enzymatic assay; Luminol; Micelle 225(1989)147

Flow system; Amperometry; Cell cultivation; Enzyme cartridge; Lactate 225(1989)253

Flow system; Biosensor; Fibre-optic; Fruit juice; Wine 225(1989)293

Potentiometry; Ion exchange; Ferrocene; Glucose oxidase; Siloxane polymer 228(1990)23

Amperometry; Ferrocene; Glucose oxidase; Carbon-paste electrode 228(1990)251

Amperometry; Flow system; Conducting organic salt; Sensor; Wall-jet cell 229(1990)83

Enzyme reactor; Blood; Plasma; Cellulose membranes; Dialysis cell, NADH, Haematocrit 231(1990)165

Field effect transistor; Enzyme membrane; Co-immobilization, Glucose oxidase, Gluconolactonase 231(1990)213

Enzyme electrodes; Polycarbonate membrane; Blood; Hydrogen peroxide, Isopropyl myristate 232(1990)357

Fluorimetry; Kinetic analysis; Hydrogen peroxide; Homovanillic acid; Peroxidase-like catalysed oxidation; Manganese tetrakis (sulphophenyl)porphyrin-catalysed oxidation 233(1990)299

Flow system; Amperometry; Enzyme electrode; Blood; Mediator 234(1990)321

Cyclic voltammetry; Enzyme electrode; Poly(*N*-methylpyrrole) film, Immobilized, Glucose oxidase, Gold microelectrode, Electropolymerization 235(1990)255

Amperometry; Enzyme electrode; Sucrose; Immobilized invertase, Beverages 236(1990)245

Amperometry; Flow system; Blood; Enzyme reactor; Chemically modified electrode, Segmented sample injection, On-line dialysis, Haematocrit 237(1990)405

Spectrophotometry; Flow system; Chemiluminescence; Enzyme reaction; Serum; Mimetic peroxidase, Hydrogen peroxide, Luminol 237(1990)497

Flow system; Biosensor; Field effect transistor; Urea; Penicillin; Cephalosporin C; Process analysis 238(1990)201

Flow system; Spectrophotometry; Enzyme reactor; Lactic acid; Serum; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411

Amperometry; Enzyme electrodes; Biosensor; Ugi reaction, Immobilization, Cyclohexyl cyanide, Glutaraldehyde 239(1990)263

Amperometry; Flow system; Foods; Soft drinks; Enzyme electrodes; Hydrogen peroxide, Membrane 242(1991)91

Amperometry; Enzyme electrodes; Glucose oxidase, Needle-type microsensor 242(1991)275

Amperometry; Enzyme electrodes; Preconcentration; Biocatalytic accumulation 243(1991)17

Spectrophotometry; Hydrogen peroxide; Enzyme reactions; Leuco Patent Blue Violet, Peroxidase 243(1991)217

Amperometry; Flow system; Biosensors; Enzyme electrodes; Glucose dehydrogenase, Benzene-1,4-dicarboxamide *N,N*-bis(benzophenoxazinyl) derivative 246(1991)283

Spectrophotometry; Chemiluminescence; Flow system; Biomass; Fermentation; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

Cyclic voltammetry; Amperometry; Enzyme electrodes; Viologens; Electron-transfer mediators, Carbon paste electrode 248(1991)155

Amperometry; Biosensors; Enzyme electrodes; Glucose dehydrogenase, Glucose oxidase 249(1991)43

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Flow system; Amperometry; Enzyme reactor; Double injection, Oxygen-permeable reaction coil, Stopped-flow 249(1991)451

### Glucose ammonia proteins

Flow system; Spectrophotometry; Bioprocess monitoring; Fermentation; Process analysis; Diode-array, Stopped-flow 249(1991)77

### Glucose biosensor

Amperometry; Galactose 218(1989)137

### Glucose isomerase

Flow system; Amperometry; Fructose; Immobilization 224(1989)31

### Glucose oxidase

Chemiluminescence; Cetyltrimethylammonium bromide; Hydrogen peroxide; Luminol; Micelle; Sensor 221(1989)11

Fluorimetry; Biosensor; Glucose 221(1989)195

Amperometry; Blood-glucose; Carbon-fibre; Stopped-flow dialysis 221(1989)205

Potentiometry; Ion exchange; Ferrocene; Glucose; Siloxane polymer 228(1990)23

Amperometry; Ferrocene; Glucose; Carbon-paste electrode 228(1990)251

Amperometry; Platinum microparticle; Polypyrrole 228(1990)311

Enzyme systems; Monoclonal antibodies; Screening procedures; ELISA 241(1990)105

### Glucose sensors

Ion exchange; Flow system; Biosensors; Poly(ester-sulfonic acid) coatings 245(1991)139

### Glucose-sensitive field-effect transistor

Potentiometry; Two-enzyme membrane 212(1988)49

### Glutamate

Flow system; Enzyme reactor; Enzyme electrode; Glutamate oxidase; Immobilized, Hydrogen peroxide 231(1990)121

Polarography; Enzyme electrode; Amplification; Alanine 236(1990)437

Amperometry; Enzyme electrodes; L-Glutamate oxidase, *Streptomyces platensis* 243(1991)9

Flow system; Fluorimetry; Biosensors; Fibre-optic sensor; Foods; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351

### Glutamate oxaloacetate transaminase

Potentiometry; Glutamate pyruvate transaminase; Pyruvate; Pyruvate oxidase; Enzyme electrode 222(1989)83

### Glutamate pyruvate transaminase

Potentiometry; Glutamate oxaloacetate transaminase; Pyruvate; Pyruvate oxidase; Enzyme electrode 222(1989)83

### Glutamic acid

Liquid chrom.; Amino acids; Chiral separation; Enantiomer separation; Chiral stationary phase, Cyclodextrin, Phthalaldehyde derivatization 234(1990)127

### Glutathione

Amperometry; Flow system; Enzyme reactor 214(1988)415

T.l.c.; Fluorimetry; Blood 227(1989)203

Cyclic voltammetry; Amperometry; Diff. pulse voltammetry; Carbon electrodes; Biosensor; Ascorbic acid; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

### Glycogen

Gel perm. chromatography; Flow system; Enzyme reactor; Starch; Amylase; Controlled-pore glass beads, Hydrolysis 234(1989)97

### Glycolate

Amperometry; Glycolate oxidase; Sensor; Mediator 228(1990)31

### Glycolate oxidase

Amperometry; Glycolate; Sensor; Mediator 228(1990)31

### Glycols

Amperometry; Flow system; Coulometry; Anodic, Kinetics, Nickel electrode 208(1988)247

### Glycoprotein variants

Liquid chrom.; Hydrophobic interaction chromatography; Plasminogen activator; Proteins 249(1991)201

### Glycoproteins

Mass spectrometry; Biological samples; Proteins; Oligonucleotides; Carbohydrates; Matrix-assisted UV/laser desorption/ionization 241(1990)175

Mass spectrometry; Endoglucanase I; Time-of-flight, UV laser desorption, Plasma desorption, *Trichoderma reesei* fungus 241(1990)321

### Glyoxal

Spectrophotometry; I.r. spectrometry; Mass spectrometry; Iron(II) complexes; Ethanedial; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Cyclic voltammetry; Amperometry; Iron(II) complexes; Ethanedial; Carbon paste electrodes; Redox mediators 242(1991)241

### Glyphosate

Gas chromatography; Aminomethylphosphonic acid; Herbicide; Nitrogen-phosphorus detector 229(1990)277

Ion exchange; Chromatography; Nitrosoglyphosate 230(1990)29

Liquid chrom.; Fluorimetry; Aminomethylphosphonic acid; Pesticides; Waters; Post-column fluorogenic labelling 233(1990)311

### Gold

Ion exchange; Emission spectrometry; Geological samples; Palladium; Plasmas; Platinum 201(1987)95

Electrotherm. atomization; At. abs. spectrometry; Extraction; Silver; Thallium; Urine; Flame, Iodide complexes 207(1988)283

Flow system; Potentiometry; Computerized flow, Constant-current stripping, Carbon or platinum fibre electrodes 208(1988)301

Anod. stripping voltammetry 209(1988)193

H.p.l.c.; Ion exchange; Platinum group metals; Chloro complexes, Bonded phase silica 220(1989)195

At. abs. spectrometry; Emission spectrometry; Mass spectrometry; Platinum; Solvent extraction; Zeeman effect, Graphite furnace 229(1990)227

At. abs. spectrometry; Palladium; Platinum; Rhodium; Silver; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

Cyclic voltammetry; Carbon paste-electrode; Chelating resin modified 232(1990)367

At. abs. spectrometry; Silver; Plasma; Graphite furnace, Zeeman effect background correction, Copper-gold-silver salt mixture, Rat, Anti-inflammatory 235(1990)393

Activ. analysis; Waters; Gamma spectrometry; Extraction; Tributylphosphate, Prospecting, Solid extract 236(1990)483

Spectrophotometry; Extraction; Ores; Amidines; Methylene blue, Diphenylbenzamidine 237(1990)491

X-ray fluores. spectrometry; Geological samples; Extraction; Tributyl phosphate, Solid extractant 243(1991)81

At. abs. spectrometry; Flow system; Ores; Preconcentration; Amberlite XAD-8 resin 245(1991)7

Emission spectrom.; Geological materials; Plasmas; D.c. argon plasma 248(1991)569

Activ. analysis; Geological materials; Microwave sublimation; Ores; Helium-oxygen plasma 248(1991)579

Diff. pulse voltammetry; Copper; Reactor moderator water; Silver; Mercury; Waters 249(1991)447

#### Gold electrode

Cyclic voltammetry; Ferrocenylalkanethiols; Alkanethiols; Mixed monolayer films 246(1991)233

#### Gold microband electrode

Voltammetry; Cyanide 248(1991)173

#### Gradient chamber

Kinetic analysis; Flow system; Model for unsegmented 220 (1989)23

Flow system; Potentiometry 226(1989)229

Flow system; Potentiometry; Acidity constant; Weak acid 226 (1989)239

#### Gradient mixing

Acidity; Rain water 243(1991)191

#### Gradients in immobilized urease

Potentiometry; Ammonium selective microelectrode 213 (1988)259

#### Grain

I.r. spectrometry; Outlier detection 223(1989)95

#### Gran plot

Potentiometry; Titrimetry 225(1989)205

#### Grapes

Polarography; H.p.l.c.; Sulphur residues; Wheat; Sampled d.c., Differential pulse 207(1988)305

#### Graph theory

Structure/property correlation; Molecular graph, Wiener equation 234(1990)487

#### Graphite

Harmonic force field; Methane 240(1990)135

#### Graphite electrodes

Scanning electron microscopy; Pyrolytic graphite, Glassy carbon, Activity 231(1990)191

Voltammetry; Phenols; Methoxyphenols; Polyvinylpyrrolidone coating, Anti-fouling 237(1990)141

Cyclic voltammetry; Diff. pulse voltammetry; Diaminopurine; Carbonyl sites 243(1991)33

#### Graphite furnace

At. abs. spectrometry; Electrotherm. atomization; Biological samples; Continuum source, Furnace atomic non-thermal excitation, Palladium and ruthenium modifiers 250(1991)71

#### Grass

Gas chromatography; At. abs. spectrometry; Alkyllead; Speciation; Tree leaves 228(1990)77

#### Grazing incidence

I.r. spectrometry; Polarization; Reflection-absorption; Organic thin films, Enhancement 240(1991)305

#### Guanine

Fluorimetry; Nucleotides, Nucleosides 207(1988)243

#### Guthion

Voltammetry; Cyclic voltammetry; Adsorptive stripping; Azinphos-methyl; Waters 238(1990)383

## H

#### Haemodialysis water

Anod. stripping voltammetry; Copper 236(1990)449

#### Haemoglobin

Kinetic analysis; Spectrophotometry; Methaemoglobin; Whole blood 224(1989)351

Liquid chrom.; Electrophoresis; Isoelectric focusing; Peptides; Proteins; Anion-exchange, Red blood cells 249(1991)169

Electrophoresis; Isoelectric focusing; Thermally formed, stepped-ramp pH gradients, Hb variant separation 249(1991)297

#### Hafnium

Spectrophotometry; Zirconium; Extraction; Dicyclohexyl-18-crown-6; Crown ether 245(1991)27

#### Hair

Emission spectrometry; Neutron activation; Copper isotope; Dietary copper; Direct-current argon plasma 225(1989)185

Polarography; Zinc; Lead; Copper; UV irradiation, Polarographic adsorptive complex waves 238(1990)367

#### Hair conditioners

Spectrophotometry; Extraction; Fabric conditioners; Quaternary ammonium salts; Tertiary alkylamines 219(1989)239

#### Halides

Voltammetry; Spinal fluid; Waters; Cathodic stripping 215 (1988)307

Flow system; Ion exchange; Potentiometry 219(1989)55

#### Halogenated hydrocarbons

Mass spectrometry; Kinetic analysis; Gas chromatography; Polynuclear aromatic hydrocarbons; Chemical ionization, Fourier transform ion cyclotron resonance 246(1990)199

#### Halogens

Raman spectrometry; Continuum resonance Raman scattering; Diatomic molecules; Unimolecular dissociation 240 (1990)119

#### Halomethylation

Mass spectrometry; Tandem, Ion trap 206(1988)239

#### Haptens

Chemiluminescence; Flow system; Immunoassay; Enzyme system; Thyroxine; Horseradish peroxidase, Luminol 237 (1990)285

Fluorimetry; Fibre-optic sensor; Immunosensors;  $F_{(ab)}$  antibody fragments 246(1991)55

#### Harmonic force field

Graphite; Methane 240(1990)135



**Headspace analysis**

Gas chromatography; Correlation chromatography; Ethylene-propylene copolymer; Peak resolution 239(1990)317

Chromatography; Polyolefins; Correlation chromatography 248(1991)271

**Headspace concentration**

Gas chromatography; Pattern recognition; Liquor aromas; Gas sensor array; Semiconductor 243(1991)293

**Heavy metals**

Ion exchange; Electrotherm. atomization; At. abs. spectrometry; Seawater; Pre-concentration, Chelex-100, pH and salts 211(1988)257

Ion exchange; Electrotherm. atomization; At. abs. spectrometry; Seawater; Pre-concentration, Chelex-100, Optimization, Plate simulation method 211(1988)271

Anod. stripping voltammetry; Wine; Mercury microelectrodes, Differential-pulse 219(1989)9

Anod. stripping voltammetry; Rain; Seawater; Mercury microelectrodes, Differential-pulse 219(1989)19

At. abs. spectrometry; Extraction; Graphite furnace 232(1990)301

**Helium-3**

Gas chromatography; Sea water; Sulphur hexafluoride; Tracers; Waters; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

**Hepatitis B surface antigen**

Fluorimetry; Immunoassay 205(1988)239

**Herbicides**

Gas chromatography; Mass spectrometry; Atrazine; Water; Ion-trap 228(1990)69

Gas chromatography; Aminomethylphosphonic acid; Glyphosate; Nitrogen-phosphorus detector 229(1990)277

Gas chromatography; Mass spectrometry; Extraction; Waters; Solid-phase extraction, Well water 236(1990)141

Flow system; Fluorimetry; Diquat 244(1991)99

Liquid chrom.; Atrazine; Humic acid; Fulvic acid; Laurentian, Ultrafiltration 244(1991)135

**Heroin**

Gas chromatography; Mass spectrometry; Isotope ratio; Geographical origin 247(1991)249

**Heterogeneous equivalent formulation**

Cyclic voltammetry; Kinetic analysis; Orthogonal collocation; Simulation; Fast second-order reactions 243(1991)301

**Heterogeneous membrane electrodes**

Flow system; Potentiometry; Cyanide; Gas diffusion 215(1988)283

**Heterogeneous sample materials**

Flow system; Immobilized reagents; Review 214(1988)1

**Hexacyanoferrate(II) electrodes**

Potentiometry; Titrimetry; Solid-state 209(1988)345

**Hexacyanoferrates**

Kinetic analysis; Spectrophotometry; Ascorbic acid 224(1989)211

Kinetic analysis; Cyclic voltammetry; Oscillating reaction; Mechanism, Silver plating solution, Photographic solution 236(1990)411

**Hexahydrotrinitrotriazine**

Fluorimetry; Waters; Nitro compounds; Explosives; Trinitrotoluene; Dinitrotoluene; In situ optical detection, Fluorescence quenching 237(1990)265

**High-purity chemicals**

Flow system; Spectrophotometry; Kinetic analysis; Manganese; Catalytic effect 217(1989)23

**High-sensitivity flow injection**

Flow system; Spectrophotometry; Biotechnology assays; Macromolecules 214(1988)87

**Histamine**

Mass spectrometry; Mifentidine 247(1991)151

**Histidine**

Voltammetry; Nickel; Speciation; Histidine complex, Aqueous ammonia 246(1991)301

**Histone H2A (1-53)-NH<sub>2</sub>**

Mass spectrometry; Liquid chrom.; Electrophoresis; Ion exchange; Chromatography; Peptides; Synthesis, Purification, Characterization 249(1991)215

**History of titrimetry**

Titrimetry 206(1988)97

**HNO emission**

Emission spectrometry; Hydrogen flame 230(1990)151

**Hollow fibres**

Ion exchange; Amino acids; Peptides; Nafion membrane; Permeation 244(1991)21

**Hollow-fibre membrane**

Flow system; Air; Carbon disulphide 226(1989)171

**Hollow-fibre reactor**

Chemiluminescence; Flow system; Hydroxy bile acid; Serum; Bioluminescence 225(1989)273

**Holmium**

Ion exchange; Amidoxime; Chelating resin; Neodymium 221(1989)325

**Homovanillic acid**

Fluorimetry; Kinetic analysis; Hydrogen peroxide; Glucose; Peroxidase-like catalysed oxidation; Manganese tetrakis-(sulphophenyl)porphyrin-catalysed oxidation 233(1990)299

**Honey**

Potentiometry; Dinitrophenolate electrode; Reducing sugars 218(1989)37

Mass spectrometry; Gas chromatography; Foods; Pentachlorophenol; Sep-Pak extraction 247(1991)121

**Hopanes**

Gas chromatography; Mass spectrometry; Biomarkers; Petroleum; Triterpanes; Crude oil 235(1990)375

**Hormones**

Mass spectrometry; Adipokinetic hormones; Peptides; Structure determination; *Locusta migratoria*, Fast atom bombardment, Tandem 248(1991)553

**Horseradish peroxidase**

Potentiometry; Flow system; Fluoride-selective electrode; Milk; Turnip extract 208(1988)173

**HSA**

Immunoassay; Voltammetry; Cyclic voltammetry; Anti-HSA; Immunosensors; Polymer-modified electrodes; Polypyrrole 249(1991)381

**Human growth hormone**

Liquid chrom.; Antibodies; Serum; Protein G affinity, Reversed phase, Antigen-antibody complexes 249(1991)185

**Human olfactory function**

Immunoassay; *Candida albicans* 217(1989)281

**Humic acids**

N.m.r. spectrometry; Soils; Sediments; Philippines 232(1990)31

Conductometry; Titrimetry; Polyelectrolytes 232(1990)141

Liquid chrom.; Atrazine; Fulvic acid; Herbicides; Laurentian, Ultrafiltration 244(1991)135

Ion exchange; Copper; Complexation; Peat, Functional groups, Sulphopropyl-Sephadex C-25 cation exchanger 244(1991)281

Anod. stripping voltammetry; Copper complexes; Fulvic acids; 1-(2-Pyridylazo)-2-naphthol, 8-Quinolol 248(1991)95

**Humic substances**

Spectrophotometry; Iron; Waters 211(1988)293

Waters; Forests; Soils; Fractionation: XAD-8 hydrophobic resin 232(1990)3

Melanoidins; Isotope ratios; Maillard reaction, Elemental composition 232(1990)11

N.m.r. spectrometry; Mass spectrometry; Soils; Waters; Fulvic acids; Isotope ratios; Amino acid analysis 232(1990)19

Polarography; Voltammetry; Phytoplankton bloom; Surface-active substances 232(1990)131

Fulvic acids; Iron; Copper; Ultrafiltration; Metal-humate interactions 232(1990)171

Titrimetry; Ion binding; Intrinsic affinity distributions 232(1990)189

**Humidity correction algorithm**

Opto-acoustic spectrom.; Adsorption isotherms; Gases; Surface acoustic wave sensors 248(1991)337

**Hunt filter**

Flow system; Impulse-response function 222(1989)151

**Hybridoma cells**

Immunoassay; Electrophoresis; Antibody expression; Enzyme-linked immunosorbent assay; Flow cytometry; Mono-

clonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

**Hydraulic model**

Flow system; Mathematical model; Process analysis 229(1990)183

**Hydrazides**

Diff. pulse polarography; Isonicotinic acid hydrazide; Pharmaceuticals 206(1988)379

**Hydrazine**

Flow system; Potentiometry; Ammonia; pH; Power plant steam cycle 214(1988)367

Flow system; Spectrophotometry; Kinetic analysis; Phenylhydrazine; Diode-array 225(1989)115

Ammonia; Polypyrrole-based sensor; Air; Acrylic strips 239(1990)257

**Hydride generation**

At. abs. spectrometry; Tellurium; Masking of interference 208(1988)347

Emission spectrometry; Molecular emission cavity analysis; Tin 209(1988)275

At. abs. spectrometry; Germanium; Meteorite 228(1990)139

At. abs. spectrometry; Lead; Soils; Alloys; Oxalic acid-ammonium cerium(III) nitrate-potassium tetrahydroborate medium 231(1990)151

At. abs. spectrometry; pH; Selenium; Selenium hydride stripping; Acid dissociation 232(1990)405

At. abs. spectrometry; Lead; Fish; Waters; Wine; Vegetable; Foods; Potassium dichromate 237(1990)181

At. abs. spectrometry; Antimony; Arsenic; Selenium; Sodium tetrahydroborate 237(1990)189

Spectrophotometry; Borate; Diborane; Boric acid 246(1991)413

**Hydrocarbon**

Gas chromatography; Opto-acoustic spectroscopy; Mercury 226(1989)99

**Hydrocarbon mixture**

N.m.r. spectrometry; Principal components 223(1989)123

**Hydrocarbon pyrolysis reactions**

Middle-value iteration algorithm 210(1988)195

**Hydrochloric acid**

Mass spectrometry; Ionization processes; Diethanolamine; Fast atom bombardment, Aggregate ions 241(1990)227

**Hydrocortisone**

Spectrophotometry; Prednisolone; Tetrazolium salt 212(1988)273

Flow system; Chemiluminescence; Steroids; Cortisone; Corticosterone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

**Hydrogen**

Gas chromatography; Pyrolysis, Solid samples 202(1987)251

Conductometry; Gas chromatography; Alkanes; Semiconductor gas sensors; Simplex optimization 216(1989)147

Mass spectrometry; Stainless steel; Spark source, Ion-source baking, Cryogenic pump 236(1990)351

### Hydrogen bonding

I.r. spectrometry; Rhamnose derivatives 240(1991)311

Potentiometry; Titrimetry; Schiff bases; Half-neutralization potentials, Perchloric acid titration 249(1991)427

### Hydrogen chloride

Potentiometry; Air; Diffusion/denuder tubes 202(1987)49

Air; Alumina sampling tubes 206(1988)289

Flow system; Amperometry; Potentiometry; Air; Chlorine; Gas detection; Continuous monitoring 248(1991)391

### Hydrogen cyanide

Spectrophotometry; Impregnated bead detector; Sensor 222(1989)63

Spectrophotometry; Air; Fibre-optic sensor; Automatic detection, Light-emitting diodes 246(1991)259

### Hydrogen flame

Emission spectrometry; HNO emission 230(1990)151

Emission spectrometry; Chemiluminescence 226(1989)305

### Hydrogen ion

Coulometry; Mercury; Thiol; Platinum anode, Acetic acid-acetic anhydride 229(1990)221

Coulometry; Ester; Anodic oxidation, Propylene carbonate 229(1990)287

Amperometry; Flow system; Hydroxyl ion; Ion-selective electrodes; Plasticised PVC membrane electrode 243(1991)55

### Hydrogen ion concentration

Voltammetry; Potentiometry; Carbon fibre electrodes 212(1988)23

### Hydrogen peroxide

Flow system; Spectrophotometry; Seawater; Reagent-injection 201(1987)83

Spectrophotometry 204(1988)349

Fluorimetry; Electroluminescence; Cathodic, Terbium(III)-doped oxide-covered tantalum electrode 208(1988)69

Spectrophotometry; Hydroperoxyl ion; Molar absorptivities 215(1988)325

Chemiluminescence; Stopped-flow technique; Luminol 217(1989)239

Spectrophotometry; Extraction 218(1989)331

Chemiluminescence; Cetyltrimethylammonium bromide; Glucose oxidase; Luminol; Micelle; Sensor 221(1989)11

Spectrophotometry; Factorial design; Oxalic acid 223(1989)283

Fluorimetry; Kinetic analysis; Glucose; Homovanillic acid; Peroxidase-like catalysed oxidation; Manganese tetrakis-(sulphophenyl)porphyrin-catalysed oxidation 233(1990)299

Voltammetry; Immobilized, Grape tissue, Catalase, Oxygen sensor, Enzyme reactor 234(1990)453

Amperometry; Biosensor; Enzyme electrode; Human erythrocytes, Catalase activity 239(1990)19

Spectrophotometry; Titrimetry; Oxalate; Thallimetric photochemical oxidation 242(1991)229

Fluorimetry; Flow system; Photoinduced fluorogenic reactions; 4-Hydroxyphenylacetic acid 243(1991)207

Spectrophotometry; Enzyme reactions; Glucose; Leuco Patent Blue Violet, Peroxidase 243(1991)217

Amperometry; Enzyme electrodes; Organic solvents, Horseradish peroxidase 245(1991)133

Flow system; Amperometry; Air; Alcohols; Enzyme reactor; Gas detection; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379

### Hydrogen spillover

I.r. spectrometry; Diffuse reflectance; Glass-covered samples; Zeolite; Fourier transform, Water formation 240(1991)363

### Hydrogen sulphide

Piezoelectric sensing 217(1989)187

### Hydrogenation

Electron probe analysis; Nickel catalyst; Sulphur poisoning 226(1989)43

### Hydrogenation apparatus

248(1991)615

### Hydrogenation of acetylene

Computer program; Molecular orbital, Tetrahydroborate; Geometry optimization 210(1988)219

### Hydrolysis

Fluorimetry; Methoxyquinoline; Photo-excitation; Ethanol 227(1989)165

I.r. spectrometry; Kinetic analysis; Bis(2,4-dinitrophenyl) oxalate; Decomposition products 247(1991)141

### Hydrolysis of complex ion

Spectrophotometry; Coulometry; Spectrocoulometric study; Tris(1,10-phenanthroline)iron(III) 209(1988)87

### Hydroperoxyl ion

Spectrophotometry; Hydrogen peroxide; Molar absorptivities 215(1988)325

### Hydrophobic polymer

Potentiometry; pH; Potassium; Ion-sensitive field effect transistor 230(1990)67

### Hydroquinone

H.p.l.c.; Amperometry; Metol; Photographic developer; Reversed-phase, Ion-pair 208(1988)337

### Hydroxy bile acid

Chemiluminescence; Flow system; Hollow-fibre reactor; Serum; Bioluminescence 225(1989)273

### Hydroxybenzaldehyde azine

Spectrophotometry; Kinetic analysis; Copper 229(1990)107

### Hydroxybutyrate

Amperometry; Immobilized 3-hydroxybutyrate dehydrogenase 209(1988)223

Amperometry; Ketone body; Sensor; Dry-strip 221(1989)289

Amperometry; Blood; Plasma; Biosensor; Enzyme electrodes; Platinized carbon electrode, NADH 237(1990)99

### Hydroxyl ion

Amperometry; Flow system; Hydrogen ion; Ion-selective electrodes; Plasticised PVC membrane electrode 243(1991)55

### Hydroxyquinoline

Spectrophotometry; Extraction; Multicomponent analysis; Trace metals 226(1989)271

### Hypochlorite

Chemiluminescence; Luminol; Water; Stopped-flow 228(1990)123

### Hypoxanthine

Polarography; Biosensor; Fish meat; Xanthine oxidase 221(1989)215

Amperometry; Xanthine; Enzyme electrodes; Uric acid, Xanthine oxidase, Carbon paste 242(1991)267

Amperometry; Biosensors; Enzyme electrodes; Fish; Foods; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161

### Hypoxanthine sensor

Potentiometry; Field-effect transistor; Uric acid; Amorphous silicon 215(1988)301

## I

### Ifosfamide

Gas chromatography; Mass spectrometry; Blood 247(1991)229

### Ill-conditioned system calibration

Spectrophotometry; Rare earth elements; Chromogenic reagents; Calibration 234(1990)483

### Iminodiacetate chelate resin

At. abs. spectrometry; Flow system; Metal ion; Microcolumn, On-line 221(1989)65

### Immobilization

Mass spectrometry; Phospholipid; X-ray photoelectron spectroscopy; Time-of-flight, Secondary-ion 225(1989)369

Potentiometry; Biosensor; Coated-wire electrode 228(1990)159

I.r. spectrometry; Spectrophotometry; Chlorotriazine; Silica gel; Trihydroxyazobenzene; Diffuse-reflectance 228(1990)235

Potentiometry; Bacteria; Lysine; Lysine decarboxylase; Sensor; Calcium alginate 229(1990)197

### Immobilized acid-base indicators

Spectrophotometry; Reflectance spectrometry; Diffuse 207(1988)343

### Immobilized reagents

Flow system; Heterogeneous sample materials; Review 214(1988)1

### Immune reactions

Fluorimetry; Fibre-optic sensor; Antigens, Antibodies, Evanescent wave detection, Skew rays 238(1990)317

### Immunocomplex

Immunoassay; Amperometry; Enzyme;  $\alpha$ -Fetoprotein; Biosensor 222(1989)235

### Immunoglobulin G

Immunoassay; Kinetic analysis;  $\alpha$ -Fetoprotein; Placental lactogen; Fluoride ion-selective electrode 224(1989)329

Flow system; Chemiluminescence; Immunoassay; Acridinium 227(1989)97

Immunoassay; Enzyme amplification; Human, Anti-human, Solid-phase, Enzyme cascade 232(1990)267

Flow system; Immunoassay; Monoclonal antibodies; Hybridoma cell fermentation 234(1990)83

Flow system; Affinity chromatography; Mouse IgG 245(1991)1

### Immunoglobulins

Potentiometry; Enzyme immunomicrosensor; Ion-sensitive field-effect transistor 230(1990)189

Potentiometry; Antibody-based biosensors; Biosensors; Receptor-based biosensors; Serum 249(1991)67

### Immunological field-effect transistor

Potentiometry; Protein; Donnan potential, Charge 238(1990)323

### Immunosensors

Fluorimetry; Fibre-optic sensor; Haptens;  $F_{(ab)}$  antibody fragments 246(1991)55

Immunoassay; Voltammetry; Cyclic voltammetry; Anti-HSA; HSA; Polymer-modified electrodes; Polypyrrole 249(1991)381

Amperometry; Immunoassay; Biosensors; Enzyme electrodes; Fibre-optic sensors; Bioaffinity, Biocatalytic 250(1991)249

### Impedance

Lipid; Odorant; Piezoelectric crystal 225(1989)399

### Impregnated bead detector

Spectrophotometry; Hydrogen cyanide; Sensor 222(1989)63

### Impulse-response function

Flow system; Spectrophotometry; Dispersion behaviour; Fourier algorithm 214(1988)77

Flow system; Hunt filter 222(1989)151

Flow system; Spectrophotometry; Potentiometry; Voltammetry; Detectors; Ion-sensitive field effect transistor 239(1990)245

### In situ

Fluorimetry; Reflectance spectrometry; Fibre optic; Poly(vinyl chloride); Sensor; Trinitrotoluene 221(1989)1

### Indigodisulphonate

Chemiluminescence; Air; Ozone 230(1990)183

### Indium

Flow system; At. abs. spectrometry; Extraction; Flame 201(1987)325

Anod. stripping voltammetry; Cadmium; Extraction; Lead; Thallium; Diethyldithiocarbamates 208(1988)219

Phenylmethylstearoylpyrazolone; Preconcentration; Silica gel 230(1990)175

D.c. polarography; Cadmium; Polyethylene glycol mono-stearate 233(1990)325

At. abs. spectrometry; Flame, Graphite furnace, Hydride generation, Contaminants, Detection limits 234(1990)425

## **Indole**

Fluorimetry; Lanthanide; Quenching 227(1989)181

Fluorimetry; Diethylaniline; Exciplex; Liposome; Pyrene 227(1989)267

## **Indole-type auxins**

Fluorimetry; Three-dimensional, Synchronous, Derivatization 205(1988)149

## **Indoleamines**

Voltammetry; Biosensors; Catecholamines; Enzyme reactor; Ion-selective electrodes; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

## **Indophenol blue**

Spectrophotometry; Ammonium ion; Salicylate, Nitroprusside 221(1989)147

## **Inductive expert system**

Mass spectrometry; Pattern recognition; Toxic compounds; SIMCA class modeling 211(1988)11

## **Inductively coupled**

Mass spectrometry; Boron; Titanium; Plasmas; Reference material, Homogeneity 244(1991)115

## **Industrial analysis**

Training 238(1990)239

## **Industrial analyzers**

Installation, Operation, Data quality 238(1990)35

## **Infectious agent**

Chemiluminescence; Genetic variant 227(1989)1

## **Information content of data**

Regression evaluation of parameters; Algorithms, Weighting 237(1990)473

## **Injection device**

Chromatography; Electrochemical concentration; Correlation chromatography 228(1990)209

## **Injection system**

Liquid chrom.; Polynuclear aromatic hydrocarbons; Sample introduction, Correlation chromatography 228(1990)193

## **Inorganic anions**

Ion exchange; Chromatography; Waters; Conductivity; Cu(II)-containing poly(3-methylthiophene) electrode, Single column 237(1990)317

## **Inorganic powders**

I.r. spectrometry; Diffuse reflectance; Silica; Silicon carbide; Blocker device, Simulation technique 240(1990)229

## **Insects**

Liquid chrom.; Solid-phase extraction; Sample preparation; Ecdysteroids; Hormones, Sep-Pak cartridge, Phenylboronic acid 236(1990)145

Gas chromatography; Sample preparation; Pheromones; Capillaries, Micro-reactor 236(1990)227

## **Insoluble systems**

Flow system; Organized media; Micellar media; Thorium; Uranium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

## **Instrument maintenance**

Process analysis 238(1990)45

## **Insulin**

Immunoassay; Amperometry; Serum; Enzyme immuno-electrode 225(1989)283

Immunoassay; Fermentation; Genetic engineered human insulin, Downstream processing 249(1991)271

## **Interference removal**

At. abs. spectrometry; Flow system; Calcium; Flame 214(1988)339

## **Interferences**

Flow system; Spectrophotometry; Calibration; Curvature correction, Gradient ratio calibration, Chloride, Phosphate 241(1990)15

At. abs. spectrometry; Antimony; Transition metal ions; Hydride generation, Sodium tetrahydroborate 244(1991)129

## **Interferon**

Mass spectrometry; Liquid chrom.; Recombinant protein; Fast atom bombardment 223(1989)361

## **Internal rotation**

I.r. spectrometry; Disulphane; Rotational and torsional spectra, Millimetre and submillimetre, Isotopes 240(1991)263

## **Internal standard**

Anod. stripping voltammetry; Cadmium; Copper; Lead; Waters; High-accuracy, Differential-pulse, Indium 215(1988)21

## **Intracellular enzyme activity**

Flow system; Fluorimetry; Cell permeabilization; Formate dehydrogenase activity; Yeast cells; *Candida boidinii* 248(1991)371

## **Intracerebral dialysis**

Flow system; Fluorimetry; Lactic acid; Rat brains; Enzymatic 205(1988)53

## **Intrinsic affinity distributions**

Titrimetry; Humic substances; Ion binding 232(1990)189

## **Iodate**

Flow system; Fluorimetry; Spectrophotometry; Iodide; Cerium(IV) catalytic reduction, *p*-Aminophenol colour reaction 248(1991)219

## **Iodation**

Karl Fischer reactions 239(1990)283



## Iodide

Piezoelectric sensing; Waters 215(1988)79

Potentiometry; Ion-selective electrodes; Copper; Silver sulphide-based 231(1990)137

Flow system; Ion-selective electrodes; Dynamic response characteristics, Tubular solid-state 234(1990)57

Amperometry; Flow system; Pneumatoamperometric detection, Oxidation, Permanganate auxiliary oxidant 247(1991)73

Potentiometry; Ion-selective electrodes; Poly(methylthiophene) conducting film; Graphite-coated electrode 248(1991)163

Flow system; Fluorimetry; Spectrophotometry; Iodate; Cerium(IV) catalytic reduction, *p*-Aminophenol colour reaction 248(1991)219

Liquid chrom.; Electrochemical detection, Inorganic iodine 248(1991)595

## Iodimetry

Titrimetry; Conductimetry/oscillometry; Piezoelectric detection; Thiosulphate, Thiocyanate, Ascorbic acid, Linear extrapolation 246(1991)425

## Ion binding

Titrimetry; Humic substances; Intrinsic affinity distributions 232(1990)189

## Ion cyclotron resonance

Mass spectrometry; Laser desorption ionization; Oligosaccharides; Neuramic acid acetal groups, Pyruvic acid acetal groups 241(1990)187

## Ion extraction

Lithium; Monoazacrown ethers; Crown ethers 245(1991)235

## Ion isolation

Mass spectrometry; Fourier transform ion cyclotron resonance, Notch excitation, Selective ion partitioning, Dual cell 246(1991)227

## Ion microprobe

Mass spectrometry; Electron probe analysis; Review; Three-dimensional analysis; Secondary-ion 216(1989)25

## Ion mobility spectrometry

Digital filters; Vapour monitors; Bis-2-chloroethyl sulphide; Narrow-bandpass 232(1990)261

Air; Bromine 249(1991)503

## Ion pairs

Titrimetry; Potentiometry; Diquat; Paraquat; Bisquaternary cation 226(1989)177

Computer-calculated extraction curves; Extraction; Extraction constants, Dissociation constants 248(1991)473

Computer-calculated extraction curves; Extraction; Extraction constants, Dissociation constants 248(1991)483

## Ion sensor

Spectrophotometry; Potassium; Lipophilic anionic dye; *N*-2,4-Dinitro-6-octyloxyphenyl-2',4'-dinitro-6'-trifluoromethylphenylamine, Neutral ionophore, Dibenzo-18-crown-6, Valinomycin 237(1990)155

## Ion-interaction chromatography

Chromatography; Ion exchange; Cyanides; Metallo-cyanides; Preconcentration 250(1991)21

## Ion-pair extraction

Flow system; Kinetic analysis; Ferroin 224(1989)169

## Ion-selective electrode mechanisms

Potentiometry 216(1989)163

## Ion-selective electrodes

Potentiometry; Review 206(1988)1

Potentiometry; Potassium; Blood; Serum; Silicon rubber tubular electrode, Valinomycin-treated 231(1990)125

Potentiometry; Copper; Iodide; Silver sulphide-based 231(1990)137

Review; Body fluids 233(1990)1

Neural network software; Array signal processing 233(1990)31

Potentiometry; Trifluoroacetophenones; Anion selectivity; Neutral ionophores, Solvent-polymeric membranes 233(1990)41

Ion-sensitive field effect transistor; Fibre-optic sensor; Ionophores; Sodium; Blood; Serum; Lipophilic, 1,2-Phenylenedioxydiacetamides 233(1990)295

Cyanide; Standard potential, Silver iodide, Silver sulphide 233(1990)329

Flow system; Dynamic response characteristics, Theory 234(1990)49

Flow system; Iodide; Dynamic response characteristics, Tubular solid-state 234(1990)57

Flow system; Spectrophotometry; Amperometry; Potentiometry; Power plants; Process analysis; Water-steam cycles; pH; Control parameters 234(1990)167

Potentiometry; Verapamil; Membrane electrodes; Ion pair, Reineckate, Dibutyl phthalate plasticizer, Poly(vinyl chloride) 235(1990)461

Potentiometry; Magnesium; Serum; Automated, Ionized 236(1990)331

Potentiometry; Ammonia; Nitrogen; Differential, Membrane, Gas-sensing 237(1990)115

Potentiometry; Phosphate glasses; Silver chloride; Alkali metal-free, Anion-selective, Ion chromatography, Electron probe microanalysis 237(1990)135

Potentiometry; Fluoride; Waters; Complementary metal oxide semiconductor device, Automated monitor, Battery operated 237(1990)345

Amperometry; Kinetic analysis; Oxygen; Membrane electrodes, Transient response 237(1990)413

Potentiometry; Alkali metals; Alkaline earth metals; Polyacrylamide membrane, Acyclic poly(oxyethylene)neutral carriers, Thermodynamics 238(1990)351

Potentiometry; Membrane electrodes; Pharmaceuticals; Pancuronium; Tubocurarine; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

Potentiometry; Prussian blue; Potassium; Thin films, Membranes 239(1990)7

Chromatography; Flow system; Ion exchange; Potentiometry; Calcium 242(1991)65

Cyanide; Silver chalcogenide membranes; Electroplated membranes 242(1991)73

Amperometry; Flow system; Hydrogen ion; Hydroxyl ion; Plasticised PVC membrane electrode 243(1991)55

Photolithographic patterning; Membrane electrodes; Nitrate; Acrylate-based 243(1991)179

Potentiometry; Potassium; Glassy carbon, Cobalt(II)-hexacyanoferrate(III) film 244(1991)39

Potentiometry; Ammonia; Air 244(1991)179

Potentiometry; Iodide; Poly(methylthiophene) conducting film; Graphite-coated electrode 248(1991)163

Potentiometry; Water hardness; Neutral carrier 248(1991)177

Potentiometry; Chloride; Nitrate; Waters; Remote analysis station, Coated-wire 248(1991)285

Potentiometry; Polarography; Cadmium; Coated-wire electrodes; Neutral carrier, 4,4'-di(5-nonyl)-2,2'-bipyridine, Selectivity coefficients 248(1991)315

Voltammetry; Biosensors; Catecholamines; Enzyme reactor; Indoleamines; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

### **Ion-selective field effect transistors**

Coulometry; Titrimetry; Migration effect; Modelling, Sensor-actuator, Diffusion, Simulation, Nernst-Planck equations 237(1990)71

I.r. spectrometry; Langmuir-Blodgett films; Phospholipid; Valinomycin; Fourier transform; Potassium; Structural characterization, Micro-ATR 240(1990)29

Flow system; Flow cells; Wall jet cell, Flow-through cell, ISFET, CHEMFET 248(1991)307

### **Ion-sensitive field effect transistors**

Potassium; Membrane materials; Silicone rubber; Polymers 231(1990)41

Flow system; pH; Ammonium; Waters; Flow-through 231(1990)53

Micro-enzyme sensor; Urease; Covalent bonding 231(1990)305

Enzyme reactor; pH-static enzyme sensor; Enzymatic membrane 233(1990)49

Ion-selective electrodes; Fibre-optic sensor; Ionophores; Sodium; Blood; Serum; Lipophilic, 1,2-Phenylenedioxydiacetamides 233(1990)295

Flow system; Spectrophotometry; Potentiometry; Voltammetry; Detectors; Impulse-response functions 239(1990)245

Flow system; Voltammetry; Potassium; Serum; Urine; Wall-jet cell, Silicone-rubber membrane 245(1991)159

### **Ionization constant**

Gauss-Newton method; Polyprotic acid 222(1989)359

### **Ionization processes**

Mass spectrometry; Hydrochloric acid; Diethanolamine; Fast atom bombardment, Aggregate ions 241(1990)227

### **Ionophores**

Ion-selective electrodes; Ion-sensitive field effect transistor; Fibre-optic sensor; Sodium; Blood; Serum; Lipophilic, 1,2-Phenylenedioxydiacetamides 233(1990)295

Cyclic voltammetry; Monensin; Lasalocid; Antibiotics; Gel/electrolyte interface, charge transfer 244(1991)15

### **Iridium**

Microscopy; Voltammetry; Mercury film electrode 221(1989)305

At. abs. spectrometry; Rhodium; Ruthenium; Platinum; Matrix extraction, Graphite furnace 236(1990)385

Extraction; Rhodium; 4-(Non-5-yl)pyridine 242(1991)191

Rhodium; Chelating resin; Poly(vinylideneethylenetriamine) 245(1991)13

### **Iridium microelectrode**

Voltammetry; Cadmium; Lead; Trace metals; Waters; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419

### **Iron**

Spectrophotometry; Humic substances; Waters 211(1988)293

Spectrophotometry; Flow system; Nickel; Doublet peaks 214(1988)197

Diff. pulse voltammetry; Anaerobic adhesive; Copper; Glassy carbon electrode 217(1989)335

At. abs. spectrometry; Electrotherm. atomization; Cobalt; Nickel; Molybdenum tube 217(1989)377

Spectrophotometry; Extraction; Molten biphenyl/naphthalene 219(1989)171

Spectrophotometry; Flow system; Waters; Wine; Integrated retention 219(1989)231

Flow system; Spectrophotometry; Waters; Sandwich techniques 219(1989)345

Liquid chrom.; Phenanthroline; Sulphosalicylate 224(1989)65

Spectrophotometry; Kinetic analysis; Micelle; Pyrocatechol violet complex 226(1989)171

Bentonite clay; Galacturonic acid 226(1989)315

Colloid; Copper; River water 227(1989)421

Flow system; Kinetic analysis; Spectrophotometry; Leucomalachite green; Peroxodisulphate 230(1990)113

Fulvic acids; Humic substances; Copper; Ultrafiltration; Metal-humate interactions 232(1990)171

Liquid chrom.; Amperometry; Spectrophotometry; Copper; Waters; Biological materials; Extraction; Cupferron derivatization 235(1990)279

At. abs. spectrometry; Flame; Nickel; Cobalt; Molybdenum; Catalysts; Petroleum; Microwave oven digestion, Slurry 235(1990)405

Chromatography; Chemiluminescence; Flow system; Cobalt; Copper; Ion chromatography, Cation-exchange column 236(1990)287

Spectrophotometry; Continuous addition of reagent technique; Differential reaction-rate methods; Copper; Serum; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

Diff. pulse voltammetry; Waters; Aluminium; Carbon paste electrodes; Preconcentration; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137

Flow system; Solid samples; Sample introduction; Ultrasonic irradiation; Plant materials; Direct introduction, Leaching 242(1991)283

Spectrophotometry; Thermal lens; Semiconductor laser; 2-Nitroso-5-diethylaminophenol 243(1991)109

Coulometry; Titrimetry; Silver; Steel; Hydrogen sulphide 244(1991)59

Potentiometry; Foods; Derivative adsorption, 2-(5'-Bromo-2'-pyridylazo)-5-dimethylaminophenol 245(1991)77

Titrimetry; Conductimetry/oscillometry; Piezoelectric detection; Dichromate, Permanganate, Redox 246(1991)421

Spectrophotometry; Sea water; Waters; Ferrozine, Sep-Pak cartridge 247(1991)125

#### **Iron chelate**

Chemiluminescence; Luminol; Xanthine oxidase 227(1989)57

#### **Iron complex**

Kinetic analysis; Spectrophotometry; Acetaminophen; Serum, Pharmaceutical preparation 224(1989)339

#### **Iron electrodes**

Raman spectrometry; Laser; Microprobe spectroscopy 240(1990)87

#### **Iron pyrite**

Voltammetry; Sulphide minerals; Cationic surfactants 207(1988)311

#### **Iron speciation**

Polarography; EDTA complexes 212(1988)335

#### **Iron(II) complexes**

Spectrophotometry; I.r. spectrometry; Mass spectrometry; Ethanedial; Glyoxal; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Cyclic voltammetry; Amperometry; Ethanedial; Glyoxal; Carbon paste electrodes; Redox mediators 242(1991)241

#### **Isoalkanes**

Gas chromatography; H.p.l.c.; Retention indices; General model 201(1987)217

#### **Isocitric acid**

Gas chromatography; Malic acid; Citric acid; Fruit juice; Lemon juice; Adulteration, Acyl esters 239(1990)165

#### **Isoelectric focusing**

Liquid chrom.; Electrophoresis; Haemoglobin; Peptides; Proteins; Anion-exchange, Red blood cells 249(1991)169

Electrophoresis; Haemoglobin; Thermally formed, stepped-ramp pH gradients, Hb variant separation 249(1991)297

#### **Isoleucine**

Flow system; Fluorimetry; Enzyme reactor; Leucine; Valine; Immobilized leucine dehydrogenase 218(1989)161

#### **Isomer distinction**

Mass spectrometry; Pentadienes; Quadrupole ion trap 215(1988)223

#### **Isoniazid**

Spectrophotometry; T.l.c.; Pharmaceuticals; Second-derivative, Scraped-spot 201(1987)357

#### **Isonicotinic acid hydrazide**

Diff. pulse polarography; Hydrazides; Pharmaceuticals 206(1988)379

#### **Isoquinolines**

N.m.r. spectrometry; Computer-assisted spectral simulation; Quinolines; Models, Library searches, Multiple linear regression 248(1991)183

#### **Isotachophoresis automation**

Conductometry; Data management 219(1989)247

#### **Isotope distribution**

Mass spectrometry; Algorithm 247(1991)107

#### **Isotope ratios**

Gas chromatography; Mass spectrometry; Metal chelates 224(1989)83

Humic substances; Melanoidins; Maillard reaction, Elemental composition 232(1990)11

N.m.r. spectrometry; Mass spectrometry; Humic substances; Soils; Waters; Fulvic acids; Amino acid analysis 232(1990)19

Gas chromatography; Mass spectrometry; Heroin; Geographical origin 247(1991)249

#### **Isotope systematics**

Mass spectrometry; Isotope dilut. analysis; Lead; Pineapple; Foods; Soldered cans, Welded cans, Clean laboratory 235(1990)367

#### **Isotopes**

Mass spectrometry; Trace metals; Clinical analysis; Fast atom bombardment, Monohydride formation 241(1990)249

#### **Isotopic ratios**

Extraction; Boron; Rocks; Alkali fusion, Methyl borate distillation, Isotope dilution 231(1990)147

#### **Ivory identification**

Liquid chrom.; Amino acids; Chiral derivatization; Carbodiimides; 2-N-benzoyloxycarbonylamino acids, N,N'-Bis[(S)-1-phenylethyl]carbodiimide 239(1990)297

## **J**

#### **Jet mixing**

Laser Doppler anemometry; Process analysis; Mixers; Petroleum pipelines; Waters; Crude oil 238(1990)251

# K

## Kalman filter

H.p.l.c.; Resolution 201(1987)185

H.p.l.c.; Resolution 202(1987)187

H.p.l.c.; Robot system; Solid dosage formulations; One-dimensional 209(1988)45

H.p.l.c.; Peak resolution 212(1988)81

Regression algorithms; Robust, Least-median, Linear calibration, Least-squares 215(1988)131

Liquid chrom.; Antipyretic; Function of mutual information; Mobile phase 222(1989)313

Voltammetry; Cyclic voltammetry 223(1989)193

Kinetic analysis; Marquardt algorithm 224(1989)243

Kinetic analysis; Amino acid; Trinitrobenzenesulphonic acid 224(1989)263

Spectrophotometry; Matrix effect; Simplex optimization 225(1989)37

Liquid chrom.; Resolution 225(1989)53

Spectrophotometry; Acidity constants; Multicomponent analysis; Noise removal; Method comparison 239(1990)95

Lanthanide complexation; Erbium; Polyimide film; Circular dichroism spectroscopy; Factor analysis 246(1991)1

Sulfur valence states; Peak resolution 248(1991)257

Liquid chrom.; Calibration; Factor analysis; Multi-wavelength detection; Rank annihilation 250(1991)37

## Karl Fischer reactions

Iodation 239(1990)283

## Kefir culture

Flow system; Lactic acid; Fibre-optic sensor; Biosensor; Dairy fermentation; Immobilized lactate oxidase 234(1990)107

## Keto acids

Chemiluminescence; Liquid chrom.; Diaminophthalhydrazide; Hydrogen peroxide 231(1990)1

## Ketone body

Amperometry; Hydroxybutyrate; Sensor; Dry-strip 221(1989)289

## Ketones

H.p.l.c.; Amperometry; Aldehydes; Photoelectrochemical detector; Mechanism, Alkyl, Aryl 215(1988)45

## Kinetics

Spectrophotometry; Acidity; Molybdate; Phosphoantimonyl-molybdenum blue 229(1990)115

Voltammetry; Computer; Cadmium-EDTA 248(1991)77

## Kinetics of analytical bioreactor

Flow system; Fluorimetry 213(1988)245

## Knowledge base

I.r. spectrometry; N.m.r. spectrometry; Numerical data; Acquisition, Dissemination, Retrieval 210(1988)81

## Knowledge-base architecture

Organic synthesis design; Symbolic processing, Numeric processing 235(1990)135

## Knowledge-based system

Potentiometry; Chronopotentiometry; Elucidation of electrode reaction mechanisms 211(1988)61

I.r. spectrometry; Computer-assisted interpretation of spectra; Descriptive, Interactive 217(1989)203

I.r. spectrometry; Condensed-phase 227(1989)343

I.r. spectrometry; Condensed-phase 227(1989)359

Polarography; Electrochemical mechanisms; Sampled d.c., Tast, Automatic 231(1990)59

I.r. spectrometry; Review; Automated spectral interpretation; Structure determination; Computer-assisted interpretation of spectra; Library search, Pattern recognition 240(1990)3

# L

## Labile metal fraction

Anod. stripping voltammetry; Copper; Fulvic acid equilibria; Lead; Sampled-d.c. 211(1988)141

## Lability

Anod. stripping voltammetry; Mercury; Metal complex; Mercury film electrode 228(1990)327

## Laboratory information management system

Computer 223(1989)205

## Laboratory management

Digital simulation; Expert system 222(1989)1

## Lactate

Amperometry; Enzyme electrodes; Mathematical treatment 201(1987)305

Flow system; Fluorimetry; Blood; Enzyme reactor; Immobilized 201(1987)351

Flow system; Amperometry; Enzyme electrode; Enzyme reactor 213(1988)91

Flow system; Amperometry; Cell cultivation; Enzyme cartridge; Glucose 225(1989)253

Amperometry; Enzyme electrode; Lactate dehydrogenase, Diaphorase, NADH, Hexacyanoferrate(II) 231(1990)309

Amperometry; Enzyme electrode; Tetrathiafulvalene mediator; Carbon foil, Lactate oxidase 234(1990)459

Amperometry; Enzyme electrodes; Pyruvate; Cholesterol; Uric acid; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85

Amperometry; Enzyme electrodes; Gamma irradiation; Poly(vinyl alcohol); Lactate oxidase, Platinized graphite, Hydrogen peroxide 243(1991)23

Potentiometry; Enzyme electrodes; Flavocytochrome  $b_2$ ; Reagentless, Electrocatalytic oxidation 243(1991)167

Amperometry; Enzyme electrodes; Malate; Wines; Malate dehydrogenase, NADH oxidase 245(1991)145

Amperometry; Enzyme electrodes; Saliva; Lactate oxidase, Hydrogen peroxide 245(1991)151

Spectrophotometry; Chemiluminescence; Flow system; Biomass; Fermentation; Glucose; Lactic acid; Gradient dilution, Hydrogen peroxide 247(1991)45

### **Lactate dehydrogenase**

Kinetic analysis; Flow system; Serum; Multi-detection, Cyclic system 219(1989)191

### **Lactic acid**

Flow system; Fluorimetry; Intracerebral dialysis; Rat brains; Enzymatic 205(1988)53

Amperometry; Flow system; Glucose; Plasma; Computer-controlled 209(1988)231

Flow system; Fibre-optic sensor; Biosensor; Dairy fermentation; Kefir culture; Immobilized lactate oxidase 234(1990)107

Flow system; Sugars; Protein; Biomass; Fermentation; Enzyme reactor; On-line 237(1990)165

Flow system; Spectrophotometry; Enzyme reactor; Glucose; Serum; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411

Spectrophotometry; Chemiluminescence; Flow system; Biomass; Fermentation; Glucose; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

### **Lactic acid fermentations**

Spectrophotometry; Flow system; Chemiluminescence; In-line monitoring 214(1988)137

### **Lactose**

Potentiometry; Kinetic analysis; Sucrose; Periodate-selective electrode 224(1989)159

Amperometry; Amylase; Carbohydrate; Oligosaccharide dehydrogenase; Enzyme electrode 230(1990)75

### **Lake water**

Voltammetry; Trace elements; Waters; Sea water; In situ measurements, Copper, Lead, Cadmium, Zinc 237(1990)429

### **Laminar dispersion**

Flow system; Mathematical modelling; Parallel plate laminar flow; Convective-diffusion equation, Peclet number, Concentration distribution 247(1991)51

### **Laminar flow model**

Flow system; Dialysis 224(1989)13

### **Langmuir-Blodgett films**

Fluorimetry; Potentiometry; Calcium-selective optrode 217(1989)1

I.r. spectrometry; Phospholipid; Valinomycin; Fourier transform; ISFET; Potassium; Structural characterization, Micro-ATR 240(1990)29

I.r. spectrometry; Fourier transform; Polyimide films; Silicon electronic devices; Attenuated total reflectance 240(1990)81

Kinetic analysis; Film balance; Process analysis; Proteins; Air/water interface, Multi-compartment trough,  $\beta$ -Lactoglobulin 249(1991)241

### **Lanthanide**

Fluorimetry; Indole; Quenching 227(1989)181

Bis(trimethylpentyl)phosphinic acid; Extraction 227(1989)397

### **Lanthanide complexation**

Potentiometry; Titrimetry; *trans*-1,3-Cyclopentanediamino-tetraacetic acid 220(1989)187

Erbium; Polyimide film; Circular dichroism spectroscopy; Factor analysis; Kalman filter 246(1991)1

### **Lanthanide ions**

Fluorimetry; Laser-induced, Time-resolved 220(1989)235

### **Lanthanum**

Spectrophotometry; Flow system; Calcium 222(1989)205

### **Lanthanum polyalkoxylate complex**

Potentiometry; Plasticizer; Poly(vinyl chloride) 223(1989)449

### **Large-bore systems**

Flow system; Spectrophotometry 214(1988)391

### **Lasalocid**

Cyclic voltammetry; Ionophores; Monensin; Antibiotics; Gel/electrolyte interface, charge transfer 244(1991)15

### **Laser**

Fluorimetry; Immunoassay; Estrogen 227(1989)129

Raman spectrometry; Iron electrodes; Microprobe spectroscopy 240(1990)87

### **Laser ablation**

Mass spectrometry; Plasma; Rocks; Minerals; Geological materials; Inductively coupled 235(1990)381

### **Laser desorption**

Mass spectrometry; Collision-induced dissociation; Ethylguanine isomers; Fourier transform 247(1991)235

Mass spectrometry; Elemental analysis; Plasmas; Inductively coupled, Time-of-flight 250(1991)61

### **Laser desorption ionization**

Mass spectrometry; Ion cyclotron resonance; Oligosaccharides; Neuramic acid acetal groups, Pyruvic acid acetal groups 241(1990)187

### **Laser Doppler anemometry**

Process analysis; Mixers; Jet mixing; Petroleum pipelines; Waters; Crude oil 238(1990)251

### **Lasers, tunable diode**

Spectrophotometry; Simplex optimization; Nitrogen oxides; Sweep averaging 241(1990)83



Spectrophotometry; Nitric acid; Air; Temperature sweep tuning 241(1990)95

### Latent-variable model

Data transformation; Model building; Marker approach 223(1989)53

### Leach liquors

X-ray fluore. spectrometry; Ion exchange; Coal ash 220(1989)217

### Lead

Anod. stripping voltammetry; Cadmium; Cobalt; Copper; Nickel; Waters; Differential-pulse 204(1988)179

Anod. stripping voltammetry; Cadmium; Extraction; Indium; Thallium; Diethyldithiocarbamates 208(1988)219

Potentiometry; Flow system; Cadmium; Nafion-modified carbon fibre electrodes; Urine; Zinc; Computerized flow, Stripping 207(1988)17

Flow system; Potentiometry; Blood; Computerized stripping 209(1988)339

Anod. stripping voltammetry; Copper; Fulvic acid equilibria; Labile metal fraction; Sampled-d.c. 211(1988)141

Cyclic voltammetry; Chronoamperometry; Carbon fibre electrodes 212(1988)331

Anod. stripping voltammetry; Cadmium; Copper; Internal standard; Waters; High-accuracy, Differential-pulse, Indium 215(1988)21

Electrotherm. atomization; At. abs. spectrometry; Copper; Environmental samples; Extraction 218(1989)173

Anod. stripping voltammetry; Cadmium; Square-wave, Mercury-plated reticulated vitreous carbon electrode 219(1989)153

At. abs. spectrometry; Hydride generation; Nitroso-R salt 221(1989)85

Anod. stripping voltammetry; Copper; Potentiometric stripping analysis 222(1989)263

Polarography; Cadmium; Stability constant; Oxalate, Sulphate 223(1989)429

Activ. analysis; Preconcentration; Graphite furnace, Biological matrix 224(1989)139

Polarography; Ethanediamine; Thallium, Cadmium, Hydroxyl ion 226(1989)351

Potentiometry; Liquid-liquid interface; Neutral carrier 228(1990)241

Voltammetry; Paint; Electro-oxidation, Surfactant 229(1990)291

Flow system; Spectrophotometry; Crown ether; Extraction; Preconcentration 230(1990)157

Anod. stripping voltammetry; Diff. pulse voltammetry; Ion exchange; Copper 231(1990)133

At. abs. spectrometry; Hydride generation; Soils; Alloys; Oxalic acid-ammonium cerium(III) nitrate-potassium tetrhydroborate medium 231(1990)151

At. abs. spectrometry; Cadmium; Mineral acids 233(1990)165

Anod. stripping voltammetry; Diff. pulse voltammetry; Cadmium; Mercury-poly(4-vinylpyridine) coating, Glassy carbon electrode 234(1990)479

Mass spectrometry; Isotope dilut. analysis; Pineapple; Foods; Isotope systematics; Soldered cans, Welded cans, Clean laboratory 235(1990)367

At. abs. spectrometry; Waters; Environmental samples; Cadmium; Copper; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

Anod. stripping voltammetry; Voltammetry; Electrochemical cell; Cadmium; Epinephrine; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

Diff. pulse voltammetry; Anod. stripping voltammetry; Urine; Fumed silica 237(1990)177

At. abs. spectrometry; Hydride generation; Fish; Waters; Wine; Vegetable; Foods; Potassium dichromate 237(1990)181

Anod. stripping voltammetry; Diff. pulse voltammetry; Mercury electrodes; Polymer modified electrodes; Copper; Cadmium 238(1990)345

Polarography; Hair; Zinc; Copper; UV irradiation, Polarographic adsorptive complex waves 238(1990)367

At. abs. spectrometry; Air; Manganese; Mercury; Electrostatic precipitation 245(1991)203

Anod. stripping voltammetry; Copper-mercury film electrode 246(1991)309

At. abs. spectrometry; Fish; Foods 246(1991)375

Voltammetry; Cadmium; Iridium microelectrode; Trace metals; Waters; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419

Anod. stripping voltammetry; Cadmium; Cylindrical graphite fibre microelectrodes, In situ plated mercury films, Square-wave 249(1991)433

### Lead dioxide

Amperometry; Dimethyl sulphoxide; DMSO; Electrocatalysis; Bismuth-doped lead dioxide thin films 248(1991)85

### Lead preconcentration

Flow system; At. abs. spectrometry; Waters; Flame 214(1988)329

### Lead-bearing samples

Gravimetry; Silica; Errors 219(1989)177

### Leaf gland secretions

Mass spectrometry; *Tagetes*; Thiophenes; Tandem 232(1990)253

### Least-squares evaluation

Potentiometry; Linearized equations; Metal/ligand equilibrium 220(1989)145

### Lectin

Fluorimetry; Umbelliferyl sugars; Quenching 220(1989)225

### Lemon juice

Gas chromatography; Isocitric acid; Malic acid; Citric acid; Fruit juice; Adulteration, Acyl esters 239(1990)165

**Leucine**

Flow system; Fluorimetry; Enzyme reactor; Isoleucine; Valine; Immobilized leucine dehydrogenase 218(1989)161

**Leucomalachite green**

Flow system; Kinetic analysis; Spectrophotometry; Iron; Peroxodisulphate 230(1990)113

**Library search systems**

General theory of similarity measures 206(1988)161

**Light scattering**

Liquid chrom.; Gel perm. chromatogr.; Molecular size; Proteins; Egg white, Hepatitis B surface antigen, Macromolecular interaction 249(1991)227

**Lignin**

Spectrophotometry; Turbidimetry; Protein; Wood 235(1990)299

**Lindane**

Fluorimetry; Biomembranes; Quenching 205(1988)61

**Linear discriminant analysis**

Pattern recognition; Outlier detection, Hawkins' method 239(1990)229

**Linearized equations**

Potentiometry; Least-squares evaluation; Metal/ligand equilibrium 220(1989)145

**Lipid membrane**

Fluorimetry; Enzyme reaction; Transduction; Fluorescence microscopy; Nitrobenzoxadiazolephosphatidylethanolamine fluorophore, Acetylcholinesterase, Acetylcholine substrate 237(1990)253

**Lipid monolayers**

Direct reflection ellipsometry 202(1987)215

**Lipids**

Flow system; Amperometry; Ion exchange; Acetylcholine; Choline; Enzyme reactor 214(1988)173

Impedance; Odorant; Piezoelectric crystal 225(1989)399

Gas chromatography; Extraction; Fats; Oils; Pesticides; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259

Mass spectrometry; Soft ionization techniques; *Serratia marcescens* 247(1991)283

**Lipophilic anionic dye**

Spectrophotometry; Potassium; Ion sensor; *N*-2,4-Dinitro-6-octyloxyphenyl-2',4'-dinitro-6'-trifluoromethylphenylamine, Neutral ionophore, Dibenzo-18-crown-6, Valinomycin 237(1990)155

**Liposome**

Fluorimetry; Diethylaniline; Exciplex; Indole; Pyrene 227(1989)267

**Liquid crystals**

I.r. spectrometry; Attenuated total reflection; Nematic, 5CB, Modulation, Electric field response 240(1991)371

**Liquid ionization**

Mass spectrometry; Biological samples; Sweat; Diethylene glycol, Exercise 246(1991)405

**Liquid junction**

Potentiometry; pH 223(1989)441

**Liquid membrane electrodes**

Potentiometry; Perchlorate; Ion-pair complexes 231(1990)69

**Liquid scintillation counting**

Liquid chrom.; Flow system; Extraction; Amino acids; Reversed-phase, Phenylthiohydantoin derivatives 233(1990)181

**Liquid surfactant membranes**

At. abs. spectrometry; Cobalt; Preconcentration; Extraction; Graphite furnace, Liquid-liquid 232(1990)389

**Liquid-liquid extraction**

Liquid-membrane technique; Copper, 1-Phenyl-3-methyl-4-stearoylpyrazol-5-one 245(1991)243

**Liquid-liquid interface**

Potentiometry; Lead; Neutral carrier 228(1990)241

**Liquid-membrane technique**

Liquid-liquid extraction; Copper, 1-Phenyl-3-methyl-4-stearoylpyrazol-5-one 245(1991)243

**Liquid-propulsion system**

Potentiometry; Titrimetry 222(1989)379

**Liquor aromas**

Gas chromatography; Pattern recognition; Headspace concentration; Gas sensor array; Semiconductor 243(1991)293

**Lithium**

Fluorimetry; Extraction; 14-Crown-4-derivative 203(1987)85

Extraction; Sodium; Synergic 220(1989)111

Mass spectrometry; Plasmas; Biological samples; Serum; Foods; Inductively coupled, Standard Reference Materials 244(1991)259

Ion extraction; Monoazacrown ethers; Crown ethers 245(1991)235

**Liver function**

Pattern recognition; Biochemical assays 202(1987)175

**Loprazolam**

Chemiluminescence; Benzodiazepine 227(1989)65

**Low-resolution mass spectra**

Gas chromatography; Mass spectrometry; Pattern recognition; Expert system; Volatile organic compounds; MAXMASS 246(1991)391

**Lubricating oils**

Fluorimetry; Waters; Zinc 202(1987)207

Flow system; Emission spectrometry; Gasoline; Flame 234(1990)439

**Luminarine**

Liquid chrom.; Chemiluminescence; Amine; Aminocoumarin; Peroxyoxalate 223(1989)309

**Lumino**

Chemiluminescence; Cetyltrimethylammonium bromide; Glucose oxidase; Hydrogen peroxide; Micelle; Sensor 221(1989)11

Chemiluminescence; Amino acid; Enzymatic assay; Glucose; Micelle 225(1989)147

Chemiluminescence; Cytochrome; Microsomal protein; Isoenzyme 227(1989)49

Chemiluminescence; Iron chelate; Xanthine oxidase 227(1989)57

Chemiluminescence; Hypochlorite; Water; Stopped-flow 228(1990)123

Chemiluminescence; Carboxylic acids; Peroxyoxalate; Polyaromatic hydrocarbons 250(1991)145

**Lutetium**

Extraction; Phenylmethylaroylpyrazolones; Steric effect, *Ortho* substituents, Triocetylphosphine oxide 239(1990)277

**Lysine**

Titrimetry; Basicity; Proteins; Nonaqueous 202(1987)159

Potentiometry; Bacteria; Immobilization; Lysine decarboxylase; Sensor; Calcium alginate 229(1990)197

Flow system; Spectrophotometry; Amino acids; Enzyme reactor 235(1990)329

**Lysine decarboxylase**

Potentiometry; Bacteria; Immobilization; Lysine; Sensor; Calcium alginate 229(1990)197

**Lysozyme activity**

Fluorimetry; Bacterial peptidoglycan degradation; Enzymatic synthesis 205(1988)89

Viscometry 219(1989)123

**M****Macromolecules**

Flow system; Spectrophotometry; Biotechnology assays; High-sensitivity flow injection 214(1988)87

Mass spectrometry; Biological samples; Tandem sector mass spectrometers; Fourier transform 250(1991)105

**Macroporous resin**

Chromium; Preconcentration; Quinolinol; Sea water 224(1989)55

**Magnesium**

H.p.l.c.; Spectrophotometry; Calcium; Water; Post-column reaction 204(1988)87

Spectrophotometry; Flow system; Calcium; Waters; Simultaneous 212(1988)291

Spectrophotometry; Flow system; Brine; Calcium; Preconcentration 214(1988)439

Potentiometry; Titrimetry; Calcium; Waters 218(1989)47

Spectrophotometry; Flow system; Calcium; Diode-array, Arsenazo 224(1989)23

Fluorimetry; Blood serum; Calcein blue 227(1989)211

Flow system; Voltammetry; Serum; Rapid scan square-wave, Thin-film deaerator, Dropping mercury electrode 234(1990)161

Potentiometry; Ion-selective electrodes; Serum; Automated, Ionized 236(1990)331

Spectrophotometry; Calcium; Waters; PAR complexes 249(1991)513

Emission spectrom.; Plasmas; Inductively coupled, Optimization 250(1991)85

**Magnetic resonance imaging agents**

N.m.r. spectrometry; Stability of iron complexes 217(1989)391

**Malachite green**

Flow system; Spectrophotometry; Fungicide; Manganese ethylenebisdithiocarbamate; Periodate 222(1989)269

**Malate**

Amperometry; Enzyme electrodes; Lactate; Wines; Malate dehydrogenase, NADH oxidase 245(1991)145

**Malate dehydrogenase**

Flow system; Spectrophotometry; Controlled-pore glass 221(1989)337

**Malic acid**

Gas chromatography; Isocitric acid; Citric acid; Fruit juice; Lemon juice; Adulteration, Acyl esters 239(1990)165

Spectrophotometry; Flow system; Enzyme reactor; Wines; Stopped-flow, Malate dehydrogenase, Malolactic fermentation 247(1991)61

**Manganese**

Electrotherm. atomization; At. abs. spectrometry; Copper; Coprecipitation/preconcentration; Waters 202(1987)223

Spectrophotometry; Chemical reagents; Plants 204(1988)355

Ion exchange; At. abs. spectrometry; Cobalt; Copper; Nickel; Tellurium metal 212(1988)191

Flow system; Spectrophotometry; Kinetic analysis; High-purity chemicals; Catalytic effect 217(1989)23

X-ray fluores. spectrometry; E.s.r.; Coprecipitation; Pore water 222(1989)169

At. abs. spectrometry; Waters; Sea water; Preconcentration; Polyazamacrocycles; Graphite furnace, Immobilized, Poly(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331

Flow system; Kinetic analysis; Spectrophotometry; Reserpine; Catalysts; Continuous-flow analysis, Manganese oxide reactor 233(1990)235

Isotope dilut. analysis; Biological samples; Foods; Spices; Thenoyltrifluoroacetone complex 234(1990)445

Flow system; Spectrophotometry; Kinetic analysis; Waters; Stopped-flow method, Gradient calibration 235(1990)323

At. abs. spectrometry; Air; Lead; Mercury; Electrostatic precipitation 245(1991)203

At. abs. spectrometry; Emulsification; Organic solvents; Zinc; Triton X-100, Bis-2-ethylhexylphosphoric acid 246(1991)347

Chemiluminescence; Flow system; Sea water; Waters;  $\delta$ -Hydroxyquinoline concentration, 7,7,8,8-Tetracyanoquinodimethane 249(1991)469

#### **Manganese ethylenebisdithiocarbamate**

Flow system; Spectrophotometry; Fungicide; Malachite green; Periodate 222(1989)269

#### **Manganese metal**

Ion exchange; At. abs. spectrometry; Spectrophotometry; Trace elements 215(1988)317

Ion exchange; At. abs. spectrometry; Spectrophotometry; Trace elements 215(1988)111

#### **Manganese tetrakis(sulphophenyl)porphyrin-catalysed oxidation**

Fluorimetry; Kinetic analysis; Hydrogen peroxide; Glucose; Homovanillic acid; Peroxidase-like catalysed oxidation 233(1990)299

#### **Manifold components**

Flow system; Spectrophotometry; Peak profiles 220(1989)293

#### **Mannitol**

Flow system; Fluorimetry; Immobilized mannitol dehydrogenase, Poly(vinyl alcohol) beads 244(1991)105

#### **Marine organisms**

Cyclic voltammetry; Diff. pulse polarography; Vanadium 219(1989)281

Isotope dilut. analysis; Arsenic; Methylated arsenic 228(1990)85

#### **Marquardt algorithm**

Kinetic analysis; Kalman Filter 224(1989)243

#### **Mass calibrant**

Mass spectrometry; Perfluorokerosene; Perfluorotributylamine; Poly(perfluoropropylene oxide); Negative ionization, Magnetic sector 229(1990)163

#### **Mass transfer**

Kinetic analysis; Acetylacetone; Ethers; Extraction; Interfacial 237(1990)237

#### **Mass-transfer coefficients for cylinders and spheres**

Flow-through porous electrodes; Theoretical expressions 215(1988)295

#### **Matched filtering**

Chromatography; Chromatography; Signal/noise enhancement; Theory 235(1990)343

Chromatography; Chromatography; Signal/noise enhancement; Program and simulation 235(1990)355

#### **Mathematical model**

Flow system; Hydraulic model; Process analysis 229(1990)183

Preconcentration; Flow-through porous electrodes; Metal ions 232(1990)401

Flow system; Sequential determinations, Sandwich techniques 234(1990)67

Fluorimetry; Bacterial cultures; Fermentation; Physiological state; Process analysis; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

#### **Mathematical modelling**

Flow system; Enzyme electrode; Single-line, Kinetics 241(1990)43

Flow system; Enzyme electrode; Single-line, Simulation 241(1990)55

Flow system; Laminar dispersion; Parallel plate laminar flow; Convective-diffusion equation, Peclet number, Concentration distribution 247(1991)51

#### **Matrix effect**

Spectrophotometry; Kalman filter; Simplex optimization 225(1989)37

#### **Matrix matching**

Flow system; Plasma; Waters; Salinity; Inductively coupled, Sodium 234(1990)207

#### **Matrix modifier**

At. abs. spectrometry; Aluminum; Fluoride; Graphite furnace 225(1989)233

#### **Meat samples**

Chemiluminescence; Immunoassay; Nortestosterone; Comparison 205(1988)223

#### **Mefloquine**

Fluorimetry; Photochemical reaction; Antimalarial 227(1989)325

#### **Melanoidins**

Humic substances; Isotope ratios; Maillard reaction, Elemental composition 232(1990)11

#### **Melting temperature**

Monte Carlo method; Silicate glasses; Calculation 210(1988)199

#### **Membrane electrodes**

Potentiometry; Ion-selective electrodes; Verapamil; Ion pair, Reineckate, Dibutyl phthalate plasticizer, Poly(vinyl chloride) 235(1990)461

Potentiometry; Ion-selective electrodes; Pharmaceuticals; Pancuronium; Tubocurarine; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

Potentiometry; Amino acids; Tyrosine; Phenylalanine; Enzyme reaction; Decarboxylase 239(1990)23

Ion-selective electrodes; Photolithographic patterning; Nitrate; Acrylate-based 243(1991)179

#### **Membrane filtration**

Metal ions; Poly(ethyleneimine); Quinolinol 230(1990)171

Spectrophotometry; Extraction; Niobium; Phenylfluorone complex, Zephiramine 248(1991)529

#### **Membrane gas sensor**

Conductometry; Ethanol probe; Fermentors 215(1988)71

**Membrane materials**

Ion-sensitive field effect transistor; Potassium; Silicone rubber; Polymers 231(1990)41

**Membrane modules**

Flow system; Bioreactors; Fermentation; Penicillin fermentation; Process monitoring; Ammonium, Glucose 249(1991)123

**Membrane probe**

Mass spectrometry; Organic compounds; Direct insertion 231(1990)175

**Membrane reactor**

Flow system; Spectrophotometry; Pulsed reagent introduction 215(1988)277

**Membrane sensors**

Potentiometry; Alcohols; Potassium; PVC-valinomycin 248(1991)323

**Membrane separation**

Spectrophotometry; Flow system; Trace organic compounds 214(1988)299

Spectrophotometry; Process analysis; Cyanide; Ores; Metalurgical samples; PTFE membrane, HCN diffusion 238(1990)117

**Menthone**

Pattern recognition; Piezoelectric sensors; Acetoin; Alcohols; Amyl acetate; Neural network; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Mercaptan**

Spectrophotometry; Caustic scrubbing liquor; Sulphide; Simultaneous determination 226(1989)165

**Mercaptoethanol**

Voltammetry; Coulometry; Anodic behaviour 206(1988)65

**Mercury**

Flow system; Potentiometry; Water; Fibre electrodes, Computerized, Constant-current stripping 201(1987)1

Potentiometry; Flow system; Air; Computerized flow constant-current stripping, Gold fibre electrode 201(1987)269

Potentiometry; Bismuth; Copper; Urine; Constant-current stripping, Gold fibre electrode 202(1987)117

Voltammetry; Ion exchange; Silver; Zeolite-containing carbon-paste electrodes; Preconcentration 207(1988)95

At. abs. spectrometry; Soils; Digestion procedures, Cold-vapour 209(1988)147

Ion exchange; Waters; Preconcentration 219(1989)339

At. abs. spectrometry; Biological samples; Microwave dissolution; Gold amalgamation, Cold-vapour 220(1989)257

Emission spectrometry; Mass spectrometry; Natural waters; Sediment; Inductively coupled plasma/mass spectrometry, Sodium boro-hydride 221(1989)77

At. abs. spectrometry; Preconcentration; Seawater; Platinum-lined graphite furnace 225(1989)175

Gas chromatography; Opto-acoustic spectroscopy; Hydrocarbon 226(1989)99

Voltammetry; Diphenylcarbazone; Modified electrode 228(1990)259

Anod. stripping voltammetry; Lability; Metal complex; Mercury film electrode 228(1990)327

Coulometry; Hydrogen ion; Thiol; Platinum anode, Acetic acid-acetic anhydride 229(1990)221

Liquid chrom.; At. abs. spectrometry; Speciation; Waters; Preconcentration; Waste waters, Cold vapour, Microcolumn 235(1990)399

At. fluor. spectrometry; Air; Preconcentration; Gold amalgamation, Cold vapour 236(1990)371

At. abs. spectrometry; Waters; Sample digestion, Cold vapour 236(1990)377

At. fluor. spectrometry; Biological samples; Reduction aeration, Microwave dissolution 242(1991)203

Gravimetry; Cerium(IV), Perchloric acid 242(1991)279

At. abs. spectrometry; Coal fly ash; Gold amalgamation, Cold vapour 243(1991)71

At. abs. spectrometry; Flow system; Catalysts; Copper salts, Cadmium salts, Continuous microflow, Cold vapour 243(1991)247

At. abs. spectrometry; Air; Lead; Manganese; Electrostatic precipitation 245(1991)203

Gas chromatography; At. abs. spectrometry; Organomercury compounds; Ethylation, Sodium tetraethylborate 248(1991)563

At. abs. spectrometry; Adsorption losses; Cold vapour, Tubing adsorption 248(1991)575

Diff. pulse voltammetry; Copper; Gold; Reactor moderator water; Silver; Waters 249(1991)447

Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Copper; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

Gas chromatography; Biological samples; Fish; Organomercury halides; Speciation; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

**Mercury complex**

At. abs. spectrometry; Tetraethylthiuram disulphide; Tetramethylene dithiocarbamate; Graphite furnace 226(1989)203

**Mercury electrodes**

Anod. stripping voltammetry; Diff. pulse voltammetry; Polymer modified electrodes; Copper; Lead; Cadmium 238(1990)345

**Mercury microelectrodes**

Polarography; Anod. stripping voltammetry; Non-conducting polymer coatings, Poly-N-ethyltyramine, Dithiocarbamate ligands 235(1990)451

**Mercury species**

Gas chromatography; At. fluor. spectrometry; Air; Cold-vapour 208(1988)151

**Mercury thin-film electrodes**

Diff. pulse voltammetry; Europium; Ytterbium; Rare earths; Nafion coating; Ion-exchange preconcentration 244(1991)29



**Mesoionic compounds**

Titrimetry; Potentiometry; Conductimetry/oscillometry; Photographic additives; Silver complexes; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248(1991)603

**Metabolic studies**

Mass spectrometry; Deuterium labelling 247(1991)277

**Metabolism**

Fluorimetry; Cell; Methylumbelliferylxyloside 227(1989)273

**Metal alloys**

Voltammetry; Anod. stripping voltammetry; Trace metals; Second-harmonic phase-selective a.c. 204(1988)189

**Metal borides**

Titrimetry; Potentiometry; Boron; Multiparametric curve-fitting 219(1989)273

**Metal chelate**

Chirality; Solvent extraction 221(1989)179

Liquid chrom.; Diacetylpyridine bis(*N*-methylenepyrrolinehydrazone); Rare earth complex 229(1990)101

**Metal complexes**

At. abs. spectrometry; Extraction; Ore; Palladium; Ammonium pyrrolidine dithiocarbamate, Methyl isobutyl ketone 217(1989)165

Anod. stripping voltammetry; Lability; Mercury; Mercury film electrode 228(1990)327

Ion exchange; Ammonium nitrate; Distribution coefficients; Amines, Aquo complexes, Cation-exchange 233(1990)129

Mixed-ligand complexes; Coordination number 238(1990)393

**Metal cyanide complex**

Potentiometry; Flow system; Silver electrode 225(1989)105

**Metal impurities**

At. abs. spectrometry; Emission spectrom.; Silica; Acid decomposition; Vapour phase, PTFE bomb 245(1991)35

**Metal ions**

D.c. polarography; Anion-induced adsorption 218(1989)7

At. abs. spectrometry; Flow system; Iminodiacetate chelate resin; Microcolumn, On-line 221(1989)65

Polythioether; Separation; Tetrathioether 221(1989)99

Ion exchange; Rate constant; Chelex 222(1989)279

Membrane filtration; Poly(ethyleneimine); Quinolinol 230(1990)171

Aminopropyltriethoxysilane; Preconcentration; Silica gel 230(1990)179

Extraction; Liquid-liquid, Tris(2,6-dimethoxyphenyl)phosphine, Phosphonium salts 231(1990)107

At. abs. spectrometry; Extraction; Cobalt; Nickel; Zinc; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

Preconcentration; Flow-through porous electrodes; Mathematical model 232(1990)401

Piezoelectric quartz crystal; Adsorption; Oscillation frequency 245(1991)71

**Metal-fulvic complexes**

Voltammetry; D.c. polarography; Fulvic acids; Complexants; Diffusion coefficient, Distribution function 232(1990)209

Fulvic acids; Complexants; Buffering action, Background sites 232(1990)225

**Metallo-cyanides**

Chromatography; Ion exchange; Cyanides; Ion-interaction chromatography; Preconcentration 250(1991)21

**Metalloporphyrin modified glassy carbon electrodes**

Voltammetry; Kinetic analysis; Urine 217(1989)343

**Metalloporphyrins**

Spectrophotometry; Cyanide; Fibre-optic chemical sensors; Corrins 241(1990)119

Mass spectrometry; Porphyrins; Fast atom bombardment, Demetallation 241(1990)281

**Metallurgical samples**

Spectrophotometry; Process analysis; Cyanide; Membrane separation; Ores; PTFE membrane, HCN diffusion 238(1990)117

**Metal-protein complex**

Electrophoresis; Food extract; Flow-through, Flat-bed 230(1990)1

**Metastable transfer emission spectrometry**

Chemiluminescence; Superconducting ceramics; Thermally labile oxygen; High-temperature, Microwave discharge 217(1989)53

**Meteorites**

Ion exchange; Isotope dilut. analysis; Osmium; Rhenium; Resonance ionization mass spectrometry 222(1989)291

At. abs. spectrometry; Germanium; Hydride generation 228(1990)139

At. abs. spectrometry; Ruthenium; Graphite furnace 232(1990)317

**Metformin hydrochloride**

N.m.r. spectrometry; Pharmaceuticals 208(1988)321

**Methadone**

Flow system; At. abs. spectrometry; Pharmaceuticals 234(1990)433

**Methaemoglobin**

Kinetic analysis; Spectrophotometry; Haemoglobin; Whole blood 224(1989)351

**Methamphetamine**

Fluorimetry; Immunoassay; Amphetamine; Urine; Polarization 227(1989)287

**Methane**

Gas chromatography; Carbon dioxide; Carbon monoxide; Temperature programmed decomposition 217(1989)197

Harmonic force field; Graphite 240(1990)135

**Methanesulphonate**

H.p.l.c.; Acetate; Ammonium; Antarctic ice; Fluoride; Formate 203(1987)11

**Method of moments**

Activ. analysis; Multiplet deconvolution; Gamma-ray 203 (1987)43

**Method validation**

Liquid chrom.; Expert system; Precision testing 235(1990)27

**Methotrexate**

A.c. polarography; Serum; Phase-selective 233(1990)281

**Methoxyphenols**

Voltammetry; Graphite electrodes; Phenols; Polyvinylpyrrolidone coating, Anti-fouling 237(1990)141

**Methoxypsoralen**

Fluorimetry; H.p.l.c. 211(1988)333

**Methoxyquinoline**

Fluorimetry; Hydrolysis; Photo-excitation; Ethanol 227(1989)165

**Methyl red**

Gas chromatography; Dye adsorption; Sterchamol; Retention mechanism 232(1990)413

**Methylamine dehydrogenase**

Kinetic analysis; Amperometry; Biosensors; Electron transfer; Quinoproteins; Amicyanin, Cytochrome *c* 249(1991)235

**Methylated arsenic**

Isotope dilut. analysis; Arsenic; Marine organism 228(1990)85

**Methylbut-1-yne**

Raman spectrometry; I.r. spectrometry; Dimethylbut-1-yne 240(1991)317

**Methylchlorosilane**

I.r. spectrometry; Flow reactor; Gas cell; Silicon 222(1989)221

**Methyldihydrooxadiazolium ion**

Chromatography; Ion exchange; Cyclic voltammetry; Nitrosamines; Electrochemical detection, 1-Octanesulphonic acid ion-pairing reagent 232(1990)397

**Methylenedioxy-N-n-propylnoraporphine**

Liquid chrom.; Aporphines; Alkaloids; *Cunninghamella elegans* O-dealkylation 233(1990)191

**Methylglyoxal**

Fluorimetry; Liquid chrom.; Mouse blood 221(1989)163

**Methylmalonic acid**

Gas chromatography; Mass spectrometry; Urine; Ion-trap detector 247(1991)243

**Methylmercury**

Gas chromatography; Natural waters; Preconcentration 221 (1989)259

Gas chromatography; Emission spectrometry; Biological sample; Headspace, Microwave-induced plasma 228(1990)93

Standard solution; Long-term stability 229(1990)281

Gas chromatography; Waters; Sea water; Plasma; Microwave-induced plasma detection, Headspace, Dithiocarbamate resin preconcentration, Speciation 234(1990)417

**Methylstyrenes**

Liquid chrom.; N.m.r. spectrometry 225(1989)409

**Methyltestosterone**

Chemiluminescence; Immunoassay; Steroids; Direct reading, Microtitre plates, Luminoskan, Solid-phase 248(1991)207

**Methylumbelliferone**

Phosphorimetry; T.l.c.; Low-temperature 212(1988)213

**Methylumbelliferylxyloside**

Fluorimetry; Cell; Metabolism 227(1989)273

**Metol**

H.p.l.c.; Amperometry; Hydroquinone; Photographic developer; Reversed-phase, Ion-pair 208(1988)337

**Metronidazole**

Spectrophotometry; Furazolidone; Tablets, K-matrix method 249(1991)349

**Micellar chromatography**

Liquid chrom.; Electrophoresis; Binding constants; Capillary zone, Surfactants 231(1990)237

**Micellar electrokinetic chromatography**

Chromatography; Chiral separation; Optical purity; Trimetoprim hydrochloride; Laudanosine, Norlaudanosine, Laudanosine, Sodium taurodeoxycholate 236(1990)281

**Micellar media**

Fluorimetry; Quinolinizinium salts 205(1988)117

Fluorimetry; Styryl derivatives of quinolinizinium salts; Solvatochromic effect 205(1988)129

Fluorimetry; Pharmaceuticals; Procaine; Solvent, Synchronous 205(1988)139

Flow system; Organized media; Insoluble systems; Thorium; Uranium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

**Micellar solutions**

Cyclic voltammetry; Octadecylsilyl-coated electrodes; Ferrocene, Hexaammineruthenium(III), Hexacyanoferrate(II), Sodium dodecyl sulphate, Cetyltrimethylammonium bromide, Platinum electrode, Pyrolytic graphite electrode 235(1990)307

Diff. pulse polarography; Organochlorine pesticides; Pesticides; Dieldrin, Endosulfan, Endosulfan sulphate, Surfactants 246(1991)293

**Micellar-catalyzed reaction**

Flow system; Fluorimetry; Pyridoxal 201(1987)67

**Micelles**

Fluorimetry; Review; Reversed 208(1988)1

Chemiluminescence; Cetyltrimethylammonium bromide; Glucose oxidase; Hydrogen peroxide; Luminol; Sensor 221(1989)11

Spectrophotometry; Arylamine; Sulphonamide; Diazotization, Pharmaceutical preparation 223(1989)327

Kinetic analysis; Cerium-arsenic reaction 224(1989)185

Chemiluminescence; Amino acid; Enzymatic assay; Glucose; Luminol 225(1989)147

Flow system; Liquid chrom.; Fluorimetry; Aluminium 225 (1989)339

Spectrophotometry; Kinetic analysis; Iron; Pyrocatechol violet complex 226(1989)137

Fluorimetry; Food; Zinc 227(1989)219

Liquid chrom.; Carboxylic acid; Partition coefficient; Ion-exclusion 230(1990)9

### Micro-enzyme sensor

Ion-sensitive field effect transistor; Urease; Covalent bonding 231(1990)305

### Microanalysis

Electron probe analysis; Review 218(1989)185

### Microbe

Liquid chrom.; Amperometry; Tissue 229(1990)139

### Microbial concentration

Amperometry; Reaction mechanism 215(1988)61

### Microbial reaction rates

Gas chromatography; Potentiometry; Voltammetry; Sediment suspensions; Apparatus 213(1988)221

### Microbiological sensors

Amperometry; Potentiometry; Fermentation processes; Review 213(1988)69

Flow system; Amperometry; Microorganisms; Fungi; Bacteria; *Escherichia coli* 234(1990)247

### Microcomputer based information system

Mass spectrometry; Categorized data bases 210(1988)169

### Microcomputer based search system

N.m.r. spectrometry 210(1988)89

### Microcomputer control

Flow system; Conductometry; Spectrophotometry; Potentiometry; Fluorimetry; Automated micro batch analyser 214(1988)107

### Microcomputers

Impact of 210(1988)1

Voltammetry; Cadmium 225(1989)391

### Microdialysis sampling

Liquid chrom.; Acetylsalicylic acid; Aspirin; Pharmacokinetics; Rats, In vivo 246(1991)181

### Microelectrode arrays

Cyclic voltammetry; Amperometry; Flow system; Glassy carbon electrodes; TTF-TCNQ; Hydroquinone; Dopamine; Ascorbic acid 246(1991)315

### Microelectrodes

Cyclic voltammetry; Electrode kinetics; Ferrocene 225(1989)83

Cyclic voltammetry; Chlorine; Waters; Platinum microdisc, Gold microdisc and microband 246(1991)267

### Microemulsions

Flow system; Spectrophotometry; Copper 201(1987)345

Spectrophotometry; Aniline; Vegetable oils; Diazotization, Coupling, Phase diagrams, Corn oil 235(1990)317

### Microorganisms

Fluorimetry; Fermentation; Immobilized 213(1988)47

Flow system; Amperometry; Microbiological sensor; Fungi; Bacteria; *Escherichia coli* 234(1990)247

### Microparticles

Pattern recognition; Mass spectrometry; Molecular speciation; Principle component analysis; Canonical discriminant analysis; Nickel compounds; Laser microprobe 243(1991)139

### Microporous membrane

Flow system; Spectrophotometry; Cyanide; Thiocyanate 214 (1988)259

### Microprobe spectroscopy

Raman spectrometry; Laser; Iron electrodes 240(1990)87

### Microscopy

Fluorimetry; Mitochondrial membrane; Yeast 227(1989)227

### Microsomal protein

Chemiluminescence; Cytochrome; Luminol; Isoenzyme 227 (1989)49

### Microwave

Emission spectrometry; Biological material; Dissolution; Environmental material; Inductively coupled plasma 225(1989)159

### Microwave acid digestion

Spectrophotometry; At. abs. spectrometry; Rocks; Geological samples 245(1991)43

### Microwave digestion

Flow system; At. abs. spectrometry; Biological tissues; Cadmium; Zinc 214(1988)421

Trace element determination 236(1990)337

Flow system; Amperometry; Phosphorus; Waters 236(1990)345

### Microwave dissolution

At. abs. spectrometry; Biological samples; Mercury; Gold amalgamation, Cold-vapour 220(1989)257

At. abs. spectrometry; Electrotherm. atomization; Silicate materials 220(1989)263

### Microwave oven

Spectrophotometry; Benzodiazepine; Benzophenone 224 (1989)123

### Microwave oven digestion

At. abs. spectrometry; Flow system; Solid samples; Sewage sludge; Flame, Manifold, Slurries 238(1990)417

### Microwave sublimation

Activ. analysis; Geological materials; Gold; Ores; Helium-oxygen plasma 248(1991)579

### Microwave-induced nitrogen discharge

H.p.l.c.; Emission spectrometry; Replacement-ion chromatography 215(1988)99

**Microwave-induced plasma**

Emission spectrometry; Nickel; Preconcentration; Biological samples; Nickel carbonyl, Chromosorb 231(1990)265

**Midazolam**

Voltammetry; Benzodiazepine; Quality control; Adsorptive stripping 229(1990)145

**Middle-value iteration algorithm**

Hydrocarbon pyrolysis reactions 210(1988)195

**Mifentidine**

Mass spectrometry; Histamine 247(1991)151

**Migration effect**

Coulometry; Titrimetry; Ion-selective field effect transistor; Modelling, Sensor-actuator, Diffusion, Simulation, Nernst-Planck equations 237(1990)71

**Milk**

Principal components; Electrotherm. atomization; At. abs. spectrometry; Trace metals; Cow 201(1987)253

Potentiometry; Flow system; Fluoride-selective electrode; Horseradish peroxidase; Turnip extract 208(1988)173

At. abs. spectrometry; Molybdenum; Electrothermal atomization, Barium difluoride, Matrix modifier 231(1990)321

Voltammetry 238(1990)357

Potentiometry; Enzyme electrodes; Fermentation broth; Penicillin; Glass pH electrode, Penicillinase 249(1991)405

**Milk components**

Amperometry; Flow system; Electrochemical biosensors; Metabolites 213(1988)101

**Milk powder**

Chemiluminescence; Fluorimetry; Phosphorimetry; Aluminium; Liquid room temperature, Ferron, Vesicles 238(1990)297

**Mineral sample**

Liquid chrom.; Bromopyridylazodiethylaminophenol; Chelation; Transition metal; Water 230(1990)23

**Minerals**

Potentiometry; H.p.l.c.; Coal; Fluorine; Pyrohydrolysis 202(1987)61

Spectrophotometry; Steels; Vanadium; With methoxypromazine maleate 209(1988)293

Mass spectrometry; Plasma; Laser ablation; Rocks; Geological materials; Inductively coupled 235(1990)381

Spectrophotometry; Rocks; Phosphorus; Decomposition, Room temperature 237(1990)251

Fluorimetry; Europium; Rare earth minerals; Gadolinium fluorescence enhancer 247(1991)37

**Mirex**

I.r. spectrometry; Raman spectrometry; Pesticides; Hydrogen-substituted degradation products 240(1990)41

**Mitochondrial membrane**

Fluorimetry; Microscopy; Yeast 227(1989)227

**Mixed-ligand complexes**

Metal complexes; Coordination number 238(1990)393

**Mixers**

Laser Doppler anemometry; Process analysis; Jet mixing; Petroleum pipelines; Waters; Crude oil 238(1990)251

**Model building**

Data transformation; Latent-variable model; Marker approach 223(1989)53

**Modelling**

Computer program; XYZ program, Graphic display 239(1990)311

**Modified electrode**

Flow system; Liquid chrom.; Enzyme reactor; Xylulose; Recirculating flow 225(1989)263

Amperometry; Film-coated electrode 228(1990)39

Voltammetry; Diphenylcarbazone; Mercury 228(1990)259

Cyclic voltammetry; Preconcentration; Tifluadom 228(1990)265

Amperometry; Chelating resin; Preconcentration; Silver; Carbon paste electrode 229(1990)213

**Molar absorptivities**

Spectrophotometry; Hydrogen peroxide; Hydroperoxyl ion 215(1988)325

**Molasses**

Flow system; Spectrophotometry; Sucrose; Sugar-cane juice 204(1988)259

Spectrophotometry; Flow system; Sucrose; Sugar-cane juice 214(1988)247

**Molecular dynamics simulation**

Poly(ethylene) state density; Temperature dependence, Multiple signal classification 235(1990)143

**Molecular electrostatic potential**

Acesulphame 210(1988)213

**Molecular emission cavity analysis**

Emission spectrometry; Organic sulphur compounds; Electrolytic generation of hydrogen sulphide 202(1987)241

Flow system; Emission spectrometry; Organic sulphur compounds; Alkaline hydrolysis 204(1988)285

Emission spectrometry; Alcohol dehydrogenase-catalyzed reactions; Ethanol 207(1988)355

Emission spectrometry; Hydride generation; Tin 209(1988)275

Emission spectrometry; Cyanide; Sulphite-formaldehyde addition compound 233(1990)307

Emission spectrometry; Sulphur; Quenching, Oxygen-hydrogen flame 235(1990)413

Emission spectrometry; Amino acids; Indirect, Trinitrobenzenesulphonic acid, Sulphur emission 239(1990)161

**Molecular graphs**

Structure generator 235(1990)221

**Molecular interaction**

Analyte recognition; Carriers; Enzymes; Optical sensing; Transduction 250(1991)181

**Molecular recognition**

Chymotrypsin; Electrostatic features, Cyclic urea mimics 210 (1988)151

**Molecular size**

Liquid chrom.; Gel perm. chromatogr.; Light scattering; Proteins; Egg white, Hepatitis B surface antigen, Macromolecular interaction 249(1991)227

**Molecular speciation**

Pattern recognition; Mass spectrometry; Microparticles; Principle component analysis; Canonical discriminant analysis; Nickel compounds; Laser microprobe 243(1991)139

**Molecular spectroscopic detection**

Flow system; Fluorimetry; Spectrophotometry; Raman spectrometry; I.r. spectrometry; Mass spectrometry; Sample introduction 250(1991)157

**Molecular weight**

Mass spectrometry; Fourier transform; Tandem quadrupole 225(1989)1

**Molecular weight sensing**

Flow system; Polyethylene glycol; Refractive index gradient detection 246(1991)241

**Molten salts**

Raman spectrometry; Ethylaluminium dichloride; Organo-chloroaluminate; Room temperature 240(1991)299

**Molybdate**

Spectrophotometry; Acidity; Kinetics; Phosphoantimonyl-molybdenum blue 229(1990)115

**Molybdenum**

Emission spectrometry; At. abs. spectrometry; Organometallic compounds; Flame 207(1988)259

Kinetic analysis; Flow system; Spectrophotometry; Ion exchange; Plants 214(1988)239

Flow system; Spectrophotometry; Electrolytic dissolution; Steels 214(1988)397

Polarography; Ion exchange; Seawater; Tungsten; Waters; Catalytic current, Preconcentration 218(1989)25

Electrotherm. atomization; At. abs. spectrometry; Foods 219 (1989)79

Spectrophotometry; Extraction; Steels 219(1989)323

Flow system; Ion exchange; Natural water; Rock 225(1989)313  
At. abs. spectrometry; Milk; Electrothermal atomization, Barium difluoride, Matrix modifier 231(1990)321

At. abs. spectrometry; Flame; Iron; Nickel; Cobalt; Catalysts; Petroleum; Microwave oven digestion, Slurry 235(1990)405

Diff. pulse voltammetry; Plant materials; Waters; Nitrate, 8-Hydroxyquinoline 244(1991)193

Geological samples; Visual comparison 244(1991)245

**Molybdenum blue**

Flow system; Kinetic analysis; Antimony 224(1989)373

**Moment analysis**

Flow system; Peak-shape 229(1990)35

**Monensin**

Cyclic voltammetry; Ionophores; Lasalocid; Antibiotics; Gel/electrolyte interface, charge transfer 244(1991)15

**Monitoring in organic solvents**

Potentiometry; Enzyme electrode 219(1989)27

**Monoaza crown ethers**

Potentiometry; Titrimetry; Complexation properties 211 (1988)223

**Monocarbon molecules**

Non-aqueous medium; Vanadium complex 225(1989)217

Lithium; Ion extraction; Crown ethers 245(1991)235

**Monoclonal antibodies**

Flow system; Immunoassay; Immunoglobulin G; Hybridoma cell fermentation 234(1990)83

Enzyme systems; Glucose oxidase; Screening procedures; ELISA 241(1990)105

Electrophoresis; Micropreparative collection system, Multiple capillaries 249(1991)247

Immunoassay; Electrophoresis; Antibody expression; Enzyme-linked immunosorbent assay; Flow cytometry; Hybridoma cells; Homogeneous continuous perfusion culture systems 249(1991)257

**Monosaccharides**

H.p.l.c.; Voltammetry; Foods; Disaccharides; Physiological fluids; Electrocatalytic chemically modified electrode 206 (1988)85

Spectrophotometry; Flow system; Strongly oxidizing agents; Manganese(VI), Copper(III) 211(1988)99

**Monte Carlo method**

Melting temperature; Silicate glasses; Calculation 210(1988) 199

**Monte Carlo simulation**

Spectrophotometry; Potentiometry; Precision, Data acquisition, Optimization 239(1990)53

**Morphine**

H.p.l.c.; Caffeine; Plant materials; Quinine; Serum; Supercritical fluid extraction 213(1988)277

**Mouse blood**

Fluorimetry; Liquid chrom.; Methylglyoxal 221(1989)163

**Multi-component analysis**

Spectrophotometry; Rare earth elements; Simplex method 222(1989)323

Spectrophotometry; Precision, Accuracy 222(1989)347

Spectrophotometry; Extraction; Hydroxyquinoline; Trace metals 226(1989)271

Flow system; Spectrophotometry; Nitrophenylhydrazine; Diode-array 229(1990)177

Spectrophotometry; Cobalt; Quinolinol 230(1990)221



Spectrophotometry; Kalman filter; Acidity constants; Noise removal; Method comparison 239(1990)95

Kinetic analysis; Spectrophotometry; Formaldehyde; Acrolein; Wavelength-pair method, Diode-array detection 244(1991)81

### **Multi-component determinations**

Spectrophotometry; Experimental design 207(1988)125

Flow system; Spectrophotometry; Partial least squares modeling 211(1988)1

### **Multi-component dye samples**

Mass spectrometry; Californium-252, Particle-desorption 218(1989)85

### **Multi-element detection**

Chromatography; Ion exchange; Chemiluminescence; Trace metals; Waters; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291

### **Multi-equilibria systems**

Titrimetry; Algorithm; Copper complexes; Factor analysis 248(1991)447

Equilibrium constants; Algorithms 249(1991)353

### **Multi-ion sensor cell**

Flow system; Potentiometry; Computerised data-acquisition 214(1988)359

### **Multi-wavelength detection**

Liquid chrom.; Calibration; Factor analysis; Kalman filter; Rank annihilation 250(1991)37

### **Multiparametric curve-fitting**

Titrimetry; Potentiometry; Boron; Metal borides 219(1989)273

### **Multipass cuvette**

Fluorimetry; Rhodamine-B 227(1989)291

### **Multiple peak recordings**

Flow system; Review 216(1989)275

### **Multiplet deconvolution**

Activ. analysis; Method of moments; Gamma-ray 203(1987)43

### **Multivariate calibration**

Cationic detergent; Tensammetry 223(1989)387

Liquid chrom.; Data analysis, Reversed-phase 235(1990)41

I.r. spectrometry; Fuel quality; Fibre optics; Process analysis; Gasoline; Diesel fuel; Octane number, Cetane number 238(1990)95

Flow system; Teniposide; Blood serum 241(1990)23

Spectrophotometry; Partial least-squares regression; Scaling methods 248(1991)459

### **Multivariate classification**

Pattern recognition; Variable selection, Sample size 220(1989)119

### **Multivariate component analysis**

Principal components; Partial least squares; Trace metals; Tungsten wire 241(1990)147

### **Multivariate correlation analysis**

Trace metals; River water; Atmospheric sampling 242(1991)5

### **Multivariate functions**

Computerized establishment of multivariate functions; QQN series software 234(1990)493

### **Multivitamin preparation**

Voltammetry; Amperometry; Ascorbic acid; Composite electrode 229(1990)63

### **Mussels**

Principal components; Electrotherm. atomization; At. abs. spectrometry; Trace elements; Polluted and unpolluted 220(1989)135

Gas chromatography; Principal components; Dinoflagellate toxin 222(1989)35

Fluorimetry; Polynuclear aromatic hydrocarbons; Shpol'skii technique; Terns; Biological samples 232(1990)245

### **Mycotoxins**

Liquid chrom.; Mass spectrometry; Paspalitrems; Paxilline, Paspaline, Paspalinine, Paspalicine, Diode-array detection, Computer library matching 244(1991)1

### **Myo-inositol**

Flow system; Amperometry; Enzyme reactors 206(1988)49

## **N**

### **NADH**

Amperometry; Alcohol dehydrogenase; Bioelectrode; Ethanol; Yeast 221(1989)43

Chemiluminescence; Flow system; Fibre-optic; Sensor; Bioluminescence 226(1989)331

Flow system; Chemiluminescence; Fibre-optic sensor; ATP; Enzyme system; Polyamide membrane 235(1990)243

### **Nafion**

Amperometry; Ion exchange; Voltammetry; Sensor; Low-conductivity solvent 221(1989)27

### **Nafion coating**

Diff. pulse voltammetry; Europium; Ytterbium; Rare earths; Mercury thin-film electrodes; Ion-exchange preconcentration 244(1991)29

### **Nafion membrane**

Ion exchange; Amino acids; Peptides; Hollow fibres; Permeation 244(1991)21

### **Nafion-coated electrodes**

Amperometry; Flow system; Voltammetry; Pharmaceuticals; Promethazine; Cations 249(1991)489

### **Nafion-modified carbon fibre electrodes**

Potentiometry; Flow system; Cadmium; Lead; Urine; Zinc; Computerized flow, Stripping 207(1988)17

### **Naphthalene**

Liquid chrom.; Acenaphthenequinone dioxime; Dimethyl glyoxime; Palladium; Preconcentration 230(1990)17

**Naphtho-crown ether**

Potentiometry; Poly(vinyl chloride); Potassium; Ionophore 222(1989)253

**Naphthols**

Flow system; Chemiluminescence 202(1987)247

**Naphthoquinones**

Polarography; Quinones; Benzoquinones; Bioelectrode quinones, Mitomycin, Aziridinylquinone, Antitumour agents 233(1990)251

**Naphthyl phenylloxazole**

Fluorimetry; Optical multiplexing; Two-photon excited, Fibre-optic star coupler 215(1988)203

**Natural organic matter**

Waters; Transmission electron microscopy 232(1990)107

**Natural products**

Liquid chrom.; Droplet countercurrent chromatography; Centrifugal partition chromatography 236(1990)63

**Natural water**

Emission spectrometry; Mass spectrometry; Mercury; Sediment; Inductively coupled plasma/mass spectrometry, Sodium borohydride 221(1989)77

Gas chromatography; Methylmercury; Preconcentration 221(1989)259

Voltammetry; Synergic adsorption; Uranium 221(1989)279

Flow system; Ion exchange; Molybdenum; Rock 225(1989)313

**Near infrared**

Raman spectrometry; I.r. spectrometry; Fourier transform 240(1991)239

**Nebulization**

Mass spectrometry; Biological samples; Boron; Inductively coupled plasma, Isotope ratio 248(1991)229

**Neodymium**

Ion exchange; Amidoxime; Chelating resin; Holmium 221(1989)325

**Neural network software**

Ion-selective electrodes; Array signal processing 233(1990)31

**Neural networks**

X-ray fluores. spectrometry; Calibration; Genetic algorithm, Backward error propagation 247(1991)97

Review; Chemical applications 248(1991)1

Pattern recognition; Piezoelectric sensors; Acetoin; Alcohols; Amyl acetate; Menthone; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Neutral carrier**

Potentiometry; Ion selectivity coefficient, Ion-selective electrode 221(1989)117

Potentiometry; Lead; Liquid-liquid interface 228(1990)241

**Neutron activation**

Arsenic speciation; Coprecipitation; Dibenzylthiocarbamate 222(1989)159

**Nickel**

Anod. stripping voltammetry; Cadmium; Cobalt; Copper; Lead; Waters; Differential-pulse 204(1988)179

Flow system; Potentiometry; Cobalt; Constant-current stripping, Carbon fibre electrodes 208(1988)237

Ion exchange; At. abs. spectrometry; Cobalt; Copper; Manganese; Tellurium metal 212(1988)191

Kinetic analysis; Spectrophotometry; Cobalt; Resolution of binary mixtures; Interpolation 212(1988)223

Spectrophotometry; Flow system; Iron; Doublet peaks 214(1988)197

At. abs. spectrometry; Electrotherm. atomization; Cobalt; Iron; Molybdenum tube 217(1989)377

Voltammetry; Potentiometry; Computerised system; Chronopotentiometric experiments 219(1989)105

Polarography; Pilocarpine 230(1990)97

Emission spectrometry; Microwave-induced plasma; Preconcentration; Biological samples; Nickel carbonyl, Chromosorb 231(1990)265

At. abs. spectrometry; Extraction; Metal ions; Cobalt; Zinc; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

At. abs. spectrometry; Flame; Iron; Cobalt; Molybdenum; Catalysts; Petroleum; Microwave oven digestion, Slurry 235(1990)405

Voltammetry; Speciation; Air; Adsorptive stripping, Magnetic extraction 235(1990)457

At. abs. spectrometry; Preconcentration; Waters; Cellulose ion exchangers, Cellex CM, Graphite furnace 238(1990)285

Flow system; Diode-array detection; Zinc; Pyridylazonaphthol 241(1990)153

At. abs. spectrometry; Waters; Preconcentration; Extraction; Graphite furnace, Dithiocarbamate complex, Xylene 242(1991)209

Voltammetry; Histidine; Speciation; Histidine complex, Aqueous ammonia 246(1991)301

Diff. pulse voltammetry; Biological cells; Biosensors; Porphyrin microelectrodes; Carbon fibre ultramicroelectrodes, Single cells 249(1991)35

At. abs. spectrometry; Extraction; Zinc; Bis(4-acylpyrazol-5-one) derivative extractants, Liquid-liquid, Polymethylene chain length, Steric effects, Tri-*n*-octylphosphine oxide synergist 249(1991)525

**Nickel catalyst**

Electron probe analysis; Hydrogenation; Sulphur poisoning 226(1989)43

**Nickel compounds**

Pattern recognition; Mass spectrometry; Molecular speciation; Microparticles; Principle component analysis; Canonical discriminant analysis; Laser microprobe 243(1991)139

**Nickel ion**

Spectrophotometry; Aluminium; Ethyl tetrabromophenolphthalein; Pyridyldiphenyltriazine; Steel 221(1989)109

**Nicotinamide adenine dinucleotides**

Chemiluminescence; Radical intermediate; Anodic oxidation, Reduced, Electrogenated 209(1988)69

**Nicotinamide coenzymes**

H.p.l.c.; Amperometry; Enzyme reactor 218(1989)129

Amperometry; Flow system; Enzyme reactor; Immobilized, Amplification, Substrate recycling, Hydrogen peroxide 248(1991)345

**Nimetazepam**

Raman spectrometry; I.r. spectrometry; Benzodiazepines; Nitrazepam; Clonazepam; Flunitrazepam; Fourier transform 240(1991)287

**Ninhydrin**

Kinetic analysis; T.l.c.; Amino acid 224(1989)315

**Niobium**

Spectrophotometry; Experimental design; Differential 203(1987)67

Spectrophotometry; Extraction; Steels 204(1988)365

Spectrophotometry; Reversed matrix representation; Tantalum; Multicomponent mixtures 212(1988)145

Spectrophotometry; Dinitrocatechol; Flotation separation; Oxalate; Rhodamine B 226(1989)281

Activ. analysis; Titanium; Proton activation 247(1991)133

Spectrophotometry; Extraction; Membrane filtration; Phenylfluorone complex, Zephiramine 248(1991)529

**Nitrate**

H.p.l.c.; Conductometry; Air; Nitrite; Passive monitors; Sulphate 217(1989)135

Voltammetry; Autocatalytic effect; Water; Second-sweep cyclic voltammetry, Mercury drop electrode 221(1989)131

Flow system; Ion exchange; Spectrophotometry 225(1989)331

Flow system; Spectrophotometry; Field monitor; River water 227(1989)379

Flow system; Polarography; Waters; Uranyl ion 234(1990)475

Liquid chrom.; Nitrite; Waters; Sea water; Venice lagoon, Ion interaction reversed-phase 239(1990)203

I.r. spectrometry; Nitrite; Ammonium; Matrix isolation, Alkali metal halide pellets 240(1990)69

Ion-selective electrodes; Photolithographic patterning; Membrane electrodes; Acrylate-based 243(1991)179

Spectrophotometry; Phosphate; Reference materials; Sea water; Autoclaving 248(1991)277

Potentiometry; Chloride; Ion-selective electrodes; Waters; Remote analysis station, Coated-wire 248(1991)285

**Nitrate-selective microelectrodes**

Potentiometry; Sediments 219(1989)351

**Nitrating acids**

Titrimetry; Voltammetry; Process industry 206(1988)137

**Nitrazepam**

Raman spectrometry; I.r. spectrometry; Benzodiazepines; Nimetazepam; Clonazepam; Flunitrazepam; Fourier transform 240(1991)287

**Nitric acid**

Spectrophotometry; Transport behaviour; Ultracentrifuge; Water; Tributyl phosphate/*n*-dodecane mixtures 201(1987)135

Biological material; Pressure decomposition 226(1989)1

Biological material; Pressure decomposition 226(1989)17

Voltammetry; Biological material; Pressure decomposition 226(1989)31

Spectrophotometry; Lasers, tunable diode; Air; Temperature sweep tuning 241(1990)95

**Nitric oxide**

I.r. spectrometry; Carbon monoxide; Platinum/silica catalysts; Adsorption 240(1990)139

**Nitrite**

Voltammetry; Seawater; Waters; Cathodic stripping 212(1988)31

Spectrophotometry; Flow system; Amines; Aromatic primary 214(1988)207

H.p.l.c.; Conductometry; Air; Nitrate; Passive monitors; Sulphate 217(1989)135

Polarography; Sausage; Water; Single-sweep 230(1990)105

Spectrophotometry; Waters; Sea water; Azo dyes; Formation kinetics, *N*-1-Naphthylethylenediamine, Sulphanilamide 232(199)345

Spectrophotometry; Kinetic analysis; Water; Food; Sausage, Potassium bromate, Thionine 234(1990)403

Liquid chrom.; Nitrate; Waters; Sea water; Venice lagoon, Ion interaction reversed-phase 239(1990)203

I.r. spectrometry; Nitrate; Ammonium; Matrix isolation, Alkali metal halide pellets 240(1990)69

D.c. polarography; Cobalt(II)-thiocyanate-ascorbic acid complex, Single-sweep 241(1990)161

Spectrophotometry; Waters; 3-Nitroaniline 242(1991)225

Voltammetry; Vitamin B<sub>12</sub>; Waters 248(1991)109

**Nitro compounds**

Fluorimetry; Waters; Explosives; Trinitrotoluene; Dinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265

**Nitrobenzene**

Gas chromatography; Annular denuder tube; Nitrogen atmospheres; Electron-capture detection 217(1989)289

Adsorption; Denuder tube; Trichloroethane; Platinum/lead collection surface 226(1989)145

Gas chromatography; Fluorimetry; Cyclohexanone; Naphthalene vapour, Indirect fluorescence detection, Quenching constants 233(1990)303

## Nitrogen

Mass spectrometry; Combustion; Elemental analysis 226 (1989)345

Dry ashing; Organic matrices; Plasma; Microwave, Low-pressure oxygen atmosphere 233(1990)321

Potentiometry; Ion-selective electrodes; Ammonia; Differential, Membrane, Gas-sensing 237(1990)115

Flow system; Phosphorus; Waters; Process analysis; Wastewater treatment plant, Biological removal 238(1990)191

Gas chromatography; Nuclear fuels; Uranium nitride; Plutonium nitride; Oxidation, Glove-box 239(1990)107

Isotope dilut. analysis; Contamination; Soil; Extraction, Distillation, Drying 245(1991)49

Flow system; Conductimetry/oscillometry; Gas diffusion; Waters; Ammonia, Nitrate, Nitrite 245(1991)183

## Nitrogen atmospheres

Gas chromatography; Annular denuder tube; Nitrobenzene; Electron-capture detection 217(1989)289

## Nitrogen compounds

Fluorimetry; Flow system; Creatinine; Ammonia; Enzyme reactor; Serum, Amino acids 245(1991)89

## Nitrogen dioxide

Piezoelectric sensing; Manganese dioxide-coated quartz 207 (1988)67

Spectrophotometry; Thermal lens; Pulsed carbon dioxide laser, Excimer-laser-pumped 245(1991)191

## Nitrogen oxides

Spectrophotometry; Lasers, tunable diode; Simplex optimization; Sweep averaging 241(1990)83

## Nitrophenol

Flow system; Amperometry; Paraoxon; Parathion 228(1990)317

## p-Nitrophenol adducts

Spectrophotometry; Stability constants; Multiwavelength data treatment 242(1991)57

## Nitrophenylhydrazine

Flow system; Spectrophotometry; Multi-component analysis; Diode-array 229(1990)177

## Nitrosamines

Chromatography; Ion exchange; Cyclic voltammetry; Methylhydroxadiazolium ion; Electrochemical detection, 1-Octanesulphonic acid ion-pairing reagent 232(1990)397

## Nitroso-R salt

At. abs. spectrometry; Hydride generation; Lead 221(1989)85

## Nitrosoglyphosate

Ion exchange; Chromatography; Glyphosate 230(1990)29

## Noise

Emission spectrometry; Signal analysis; Inductively coupled plasma, Microlitre sample 226(1989)53

## Noise removal

Spectrophotometry; Kalman filter; Acidity constants; Multi-component analysis; Method comparison 239(1990)95

## Non-aqueous medium

Monocarbon molecules; Vanadium complex 225(1989)217

## Nonylphenol polyglycol ether

Liquid chrom.; Surfactants; Non-ionic 236(1990)273

## Norbornadiene derivatives

Kinetic analysis; Spectrophotometry; Tetraphenylporphinecobalt(II); Photochromism; Porous glass beads, Immobilized 243(1991)97

## Norepinephrine

Flow system; Fluorimetry; Epinephrine; Trihydroxyindole; Urine 229(1990)27

Amperometry; Flow system; Enzyme electrode; Dopamine; Plant tissue-based electrode, Zucchini-based electrode, Ascorbic acid interference elimination 234(1990)315

## Nortestosterone

Chemiluminescence; Immunoassay; Meat samples; Comparison 205(1988)223

Spectrophotometry; Chemiluminescence; Immunoassay; Enzyme 227(1989)109

## Nuclear fuels

Kinetic analysis; Spectrophotometry; Technetium; Vegetation 207(1988)233

Gas chromatography; Nitrogen; Uranium nitride; Plutonium nitride; Oxidation, Glove-box 239(1990)107

## Nuclear reprocessing

Spectrophotometry; Bromopyridylazodiethylaminophenol; Uranium 228(1990)279

## Nucleic acids

Fluorimetry; Terbium; Phenanthroline, DNA, RNA 248 (1991)589

## Nucleosides

I.r. spectrometry; Cytidine; Deoxycytidine; Fourier transform, Phosphate salts, Aqueous solutions 240(1991)277

## Numerical analysis

Spectrophotometry; Drug-macromolecule binding parameters; Binding parameters; Scatchard plot, Phenylbutazone, Oxyphenbutazone 244(1991)145

## Numerical data

I.r. spectrometry; N.m.r. spectrometry; Knowledge base; Acquisition, Dissemination, Retrieval 210(1988)81

# O

## Octadecyl isonicotinate

Flow system; Potentiometry; Tridodecylamine; Neutral carrier 221(1989)139

## Octadecyl phases

H.p.l.c.; Caffeine; Purine bases; Serum; High-density, Chemically bonded, Silica gels 208(1988)263

**Octadecylsilyl-coated electrodes**

Cyclic voltammetry; Micellar solutions; Ferrocene, Hexaammineruthenium(III), Hexacyanoferrate(II), Sodium dodecyl sulphate, Cetyltrimethylammonium bromide, Platinum electrode, Pyrolytic graphite electrode 235(1990)307

**Octane number**

Partial-least-squares models; Subgraph descriptors 235(1990)177

Gas chromatography; Process analysis; Petroleum reforming 238(1990)149

**Octanol-water partition coefficients**

Flow system; Spectrophotometry; Dialyzer 214(1988)315

**Odorants**

Lipid; Impedance; Piezoelectric crystal 225(1989)399

Pattern recognition; Piezoelectric sensors; Acetoin; Alcohols; Amyl acetate; Menthone; Neural network; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Odour quality**

Cluster analysis; Semantic description 239(1990)73

**Odour-sensing system**

Conductometry; Pattern recognition; Semiconductor gas sensors 215(1988)155

**Ofloxacin**

Voltammetry; Adsorptive stripping; Pharmaceuticals 231(1990)129

**Oil-based drilling fluids**

Potentiometry; Titrimetry; Calcium 219(1989)147

**Oil-spill identification**

Pattern recognition; Fluorimetry; Gas chromatography; Mass spectrometry 222(1989)135

**Oils**

Flow system; Titrimetry; Free acidity 225(1989)431

Gas chromatography; Extraction; Fats; Lipids; Pesticides; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259

**Olfactory system**

Pattern recognition; Piezoelectric sensors; Acetoin; Alcohols; Amyl acetate; Menthone; Neural network; Odorants; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Oligonucleotides**

Mass spectrometry; Biological samples; Proteins; Glycoproteins; Carbohydrates; Matrix-assisted UV/laser desorption/ionization 241(1990)175

**Oligosaccharide dehydrogenase**

Amperometry; Amylase; Carbohydrate; Lactose; Enzyme electrode 230(1990)75

**Oligosaccharides**

Mass spectrometry; Laser desorption ionization; Ion cyclotron

resonance; Neuramic acid acetal groups, Pyruvic acid acetal groups 241(1990)187

Mass spectrometry; Bioorganic molecules; Formylamino-ethanol; Peptides; Fast atom bombardment, Matrix 241(1990)219

**Olive oil**

Flow system; Polyphenols; Extraction; Iterative flow direction change 235(1990)441

Gas chromatography; Mass spectrometry; Cinnamic acid ethyl ester, 4-Vinylphenol 247(1991)295

**On-line**

Flow system; Fluorimetry; Fluoride; Ternary complex; Calcein blue, Zirconium 230(1990)137

**On-line analysis**

Sampling; Difficult to handle materials, Non-Newtonian suspensions, Pastes, Cohesive solids, Radioactive materials, Toxic materials 238(1990)11

**On-line electrochemical derivatization**

Flow system; Spectrophotometry; Etoposide; Plasma; Teniposide; Diode-array detection 202(1987)35

**On-line separation**

Flow system; Ion exchange; At. abs. spectrometry; Emission spectrometry; Extraction; Gas diffusion; Preconcentration 214(1988)41

**Optical activity**

At. abs. spectrometry; Liquid chrom.; Computer simulation; Jones and Mueller calculus, Scientific block diagram program 246(1991)9

**Optical fibre sensor**

Fluorimetry; Coumarin; Near-infrared semiconductor laser; Second-harmonic emission 209(1988)327

Fluorimetry; Fluoride 220(1989)75

Spectrophotometry; Diffuse reflectance; Chlorine; *o*-Toluidine, Nylon strip, Dry reagent 244(1991)71

**Optical fibres**

Flow system; Cylindrical flow cells; Cell design theory, Algorithm, Capillary column 234(1990)259

**Optical membrane**

Spectrophotometry; Trinitrotoluene; Waters; Clear, Amine-containing poly(vinyl chloride) 217(1989)217

**Optical multiplexing**

Fluorimetry; Naphthyl phenoxazole; Two-photon excited, Fibre-optic star coupler 215(1988)203

**Optical purity**

Chromatography; Chiral separation; Micellar electrokinetic chromatography; Trimetoquinol hydrochloride; Laudanosoline, Norlaudanosoline, Laudanosine, Sodium taurodeoxycholate 236(1990)281

**Optical sensing**

Analyte recognition; Carriers; Enzymes; Molecular interaction; Transduction 250(1991)181



**Optical sensor**

Reflectance spectrometry; Calcium ion sensor; Chromogenic crown ether 213(1988)251

**Optical waveguide**

Spectrophotometry; Copper complex; Sensor; Sulphur dioxide 226(1989)153

**Optimal computational procedures**

Ab-initio calculations on large molecules 210(1988)209

**Optimization**

Liquid chrom.; Function of mutual information; Capacity factor, Mobile-phase 222(1989)301

Edible oil; Statistics 223(1989)237

Flow system; Ammonia; Indophenol blue, Simplex method, Powell method 241(1990)31

Liquid chrom.; Carboxylic acids; Wine; Derivatization 242(1990)25

**Optimization function**

T.l.c.; Amino acid; Multidimensional 223(1989)411

**Optosensing**

Flow system; Chromatography; Fibre-optic sensor; Ammonia; Phosphate; Thin-layer detector 234(1990)31

**Orange juice dilution**

Canonical correlation analysis 212(1988)309

**Ore leachate**

Flow system; Uranium 230(1990)217

**Ores**

At. abs. spectrometry; Extraction; Metal complexes; Palladium; Ammonium pyrrolidine dithiocarbamate, Methyl isobutyl ketone 217(1989)165

Potentiometry; Fluoride; Slags; Direct fusion 219(1989)335

Liquid chrom.; Rare earth elements; Thorium; Chromium; Ion pairing, Complexes, Precolumn derivatization 237(1990)311

Spectrophotometry; Gold; Extraction; Amidines; Methylene blue, Diphenylbenzamidine 237(1990)491

Spectrophotometry; Process analysis; Cyanide; Membrane separation; Metallurgical samples; PTFE membrane, HCN diffusion 238(1990)117

Voltammetry; Vanadium; Linear-sweep, 5-Br-PADAP complex 238(1990)375

At. abs. spectrometry; Flow system; Gold; Preconcentration; Amberlite XAD-8 resin 245(1991)7

Activ. analysis; Geological materials; Gold; Microwave sublimation; Helium-oxygen plasma 248(1991)579

**Organic acids**

H.p.l.c.; Ion exchange; Fermentation media; Short glass columns 213(1988)227

Gas chromatography; Liquid chrom.; Biological fluids; Serum; Urine; Extraction 236(1990)121

**Organic bases**

Coulometry; Acetyl ion generation; Oxidation of mercury in acetic anhydride 212(1988)73

**Organic compounds**

Raman spectrometry; Surface-enhanced, Silver-coated filter paper 208(1988)21

Phosphorimetry; Cyclodextrin enhancement; Room-temperature 217(1989)171

Chemiluminescence 217(1989)371

Mass spectrometry; Membrane probe; Direct insertion 231(1990)175

N.m.r. spectrometry; Parameter set;  $sp^3$ -Hybridized carbon atoms,  $^{13}C$  chemical shift prediction 233(1990)213

Potentiometry; Flow system; Nickel oxide electrode 243(1991)279

**Organic donor-acceptor electrodes**

Voltammetry; Biological molecules 206(1988)75

**Organic iodine-containing compounds**

Potentiometry; Kinetic analysis 206(1988)375

**Organic matrices**

Dry ashing; Plasma; Nitrogen; Microwave, Low-pressure oxygen atmosphere 233(1990)321

**Organic micropollutants**

Voltammetry; Phospholipid-coated mercury electrodes; Waters 207(1988)47

**Organic phase**

Enzyme electrodes; Biosensors; Review 249(1991)1

**Organic pigment**

Spectrophotometry; Artists' paint; Derivative, Reflectance 226(1989)293

**Organic pollutants**

Flow system; Conductometry; Waters; Titanium dioxide; Film reactor; Immobilized 231(1990)13

Flow system; Liquid chrom.; Spectrophotometry; Mass spectrometry; Extraction; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119

Liquid chrom.; Fish; Waters; Cytotoxicity; In vitro 234(1990)193

**Organic solvents**

Flow system; Spectrophotometry; Water traces 220(1989)55

At. abs. spectrometry; Emulsification; Manganese; Zinc; Triton X-100, Bis-2-ethylhexylphosphoric acid 246(1991)347

**Organic sulphur compounds**

Emission spectrometry; Molecular emission cavity analysis; Electrolytic generation of hydrogen sulphide 202(1987)241

Flow system; Emission spectrometry; Molecular emission cavity analysis; Alkaline hydrolysis 204(1988)285

**Organic synthesis design**

EROS systems; Haloform reaction, Similarity definitions 235(1990)65

SYNGEN program 235(1990)103

Symbolic equations, Combinatorial algorithm 235(1990)115

Knowledge-base architecture; Symbolic processing, Numeric processing 235(1990)135

Computer-assisted problem solving; Combinatorial flood, Formal restraint methods 235(1990)155

EROS systems; Automated rule derivation, Machine learning 235(1990)163

Modular CARSA system, Industrial applications, Synthon substitution 235(1990)189

LILITH program, Reactivity prediction 235(1990)209

### Organic volatiles

Air; Sampling procedures; Extraction; Pollution 236(1990)197

### Organized media

Flow system; Micellar media; Insoluble systems; Thorium; Uranium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

### Organochlorine pesticides

Diff. pulse polarography; Micellar solutions; Pesticides; Dieldrin, Endosulfan, Endosulfan sulphate, Surfactants 246(1991)293

### Organochloroaluminate

Raman spectrometry; Ethylaluminium dichloride; Molten salts; Room temperature 240(1991)299

### Organohalogens

Flow system; Conductimetry/oscillometry; Combustion; Pre-concentration; Air 241(1990)71

### Organomercury compounds

Gas chromatography; At. abs. spectrometry; Mercury; Ethylation, Sodium tetraethylborate 248(1991)563

### Organomercury halides

Gas chromatography; Biological samples; Fish; Mercury; Speciation; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

### Organometallic compounds

Emission spectrometry; At. abs. spectrometry; Molybdenum; Flame 207(1988)259

### Organophosphorus compounds

Spectrophotometry; Air; Inhibition of cholinesterases 217(1989)43

I.r. spectrometry; Ethylphosphine; Normal coordinate calculations 240(1990)19

### Organophosphorus pesticides

Spectrophotometry; Waters; Oxygen-flask combustion 206(1988)299

H.p.l.c.; Flow system; Extraction; Waters 212(1988)123

Gas chromatography; Mass spectrometry; Chlorotriazine pesticides; Pesticides; Soils 243(1991)259

Gas chromatography; Extraction; Fats; Lipids; Oils; Pesticides; Solid-phase extraction cartridges 245(1991)259

### Orthogonal collocation

Cyclic voltammetry; Kinetic analysis; Heterogeneous equivalent formulation; Simulation; Fast second-order reactions 243(1991)301

### Orthogonal regression

H.p.l.c.; Titrimetry; Gravimetry; Anions; Waters 220(1989)207

### Orthophosphate

Flow system; Reliability criterion; Method development evaluation 207(1988)111

### Oscillating frequency

Piezoelectric crystal; Density, Viscosity 230(1990)41

### Oscillating reaction

Kinetic analysis; Cyclic voltammetry; Hexacyanoferrates; Mechanism, Silver plating solution, Photographic solution 236(1990)411

### Osmium

Ion exchange; Isotope dilut. analysis; Meteorite; Rhenium; Resonance ionization mass spectrometry 222(1989)291

Spectrophotometry; Flotation; Crystal Violet, Malachite Green 242(1991)185

Spectrophotometry; Kinetic analysis; Pyrogallol red oxidation, Bromate, Osmium catalysis 244(1991)231

### Osmotic pump

Immunoassay; Saliva; Testosterone; In situ collection device 248(1991)517

### Outlier detection

I.r. spectrometry; Grain 223(1989)95

### Ovary cell

Fluorimetry; Chinese hamster; Fluoronitro benzoxadiazole; Phthalaldehyde 223(1989)299

### Overtone spectroscopy

Diethyl ether; Pyroelectric detector, Laser power 240(1991)377

### Oxalate

Flow system; Amperometry; Enzyme reactor; Immobilized oxalate oxidase 218(1989)1

Spectrophotometry; Dinitrocatechol; Flotation separation; Niobium; Rhodamine B 226(1989)281

Flow system; Kinetic analysis; Amperometry; Photosensitive compounds; Iron (III) 234(1990)227

Ion exchange; Chromatography; Plasma; Enzymatic method; Chloride removal 237(1990)299

Kinetic analysis; Flow system; Urine; Enzyme reactor; Double stopped flow 242(1991)179

Spectrophotometry; Titrimetry; Hydrogen peroxide; Thallimetric photochemical oxidation 242(1991)229

### Oxalate oxidase

Ion exchange; Enzyme electrode; Enzyme inhibition; Urine, Oxalate, Thiocyanate 245(1991)129

### Oxalic acid

Kinetic analysis; Formic acid; Gasometric 212(1988)303

Spectrophotometry; Factorial design; Hydrogen peroxide 223 (1989)283

### **Oxazepam**

Chemiluminescence; Immunoassay; H.p.l.c.; Urine 205(1988)249

Diff. pulse voltammetry; Voltammetry; Camazepam; Temazepam; Benzodiazepines; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

### **Oxidation**

Liquid chrom.; Thiopurine; Electrochemical activation; Enzymatic activation; Micellar, Horseradish peroxidase 237 (1990)305

### **Oxidation reactions**

Ozone generation; Foam flotation-separation; Cerium; Mini ozonizer 238(1990)427

### **Oxo-bile acid**

Liquid chrom.; Chemiluminescence; Oxo-steroid; Peroxyoxalate 227(1989)21

### **Oxo-steroid**

Liquid chrom.; Tetrahydrofuran; Dansylhydrazones 225 (1989)421

Liquid chrom.; Chemiluminescence; Oxo-bile acid; Peroxyoxalate 227(1989)21

### **Oxochloroaluminate melts**

I.r. spectrometry; Fourier transform, MNDO/3-calculated spectra 240(1990)61

### **Oxychlorine**

Kinetic analysis; Flow system; Chlorine 224(1989)383

### **Oxyethylated alcohols**

Voltammetry; Tensammetry; Accumulation, Hanging mercury drop electrode 202(1987)85

Voltammetry; Tensammetry; Accumulation, Hanging mercury drop electrode, Mixtures 202(1987)97

### **Oxygen**

Fluorimetry; Fibre-optic sensor; Decay time 205(1988)1

Flow system; Amperometry; Chemically sterilizable barrier; Fermentor monitoring; Glucose 216(1989)299

Amperometry; Kinetic analysis; Ion-selective electrodes; Membrane electrodes, Transient response 237(1990)413

Titrimetry; Potentiometry; Superconductors;  $x$  in  $\text{YBa}_2\text{Cu}_3\text{O}_{6.5+x}$  237(1990)421

### **Oxygen electrode**

Potentiometry; Biosensor; Ag/AgCl anode, Gold anode, Silicon wafer, Miniature Clark-type oxygen electrode, Semiconductor technique 233(1990)275

Polarography; Thermom. analysis; Aromatic compounds; Biosensors; *Pseudomonas cepacia*; Calcium alginate gel, Metabolism 249(1991)17

### **Oxygen free radicals**

Electron spin res.; Superoxide; Copper complexes, Hydroxyl radicals 243(1991)221

### **Oxygen sensor**

Fluorimetry; Energy transfer-based optical 212(1988)261

### **Oyster Tissue**

Diff. pulse voltammetry; Selenium; 3,3'-Diaminobenzidine piazselenol 201(1987)23

### **Oysters**

Principal components; At. abs. spectrometry; Trace metals 248(1991)51

### **Ozone**

Spectrophotometry; Waters; Indirect 215(1988)353

Chemiluminescence; Air; Indigodisulphonate 230(1990)183

### **Ozone generation**

Oxidation reactions; Foam flotation-separation; Cerium; Mini ozonizer 238(1990)427

## **P**

### **Paint**

Voltammetry; Lead; Electro-oxidation, Surfactant 229(1990)291

### **Paint solvents**

I.r. spectrometry; Xylol; Fourier transform, Butan-1-ol, Butyl acetate, Azeotropic mixtures 242(1991)123

### **Palladium**

Ion exchange; Emission spectrometry; Geological samples; Gold; Plasmas; Platinum 201(1987)95

Electrotherm. atomization; At. abs. spectrometry; Extraction; Platinum; Rocks; Soils; Iodo complexes 204(1988)333

Spectrophotometry; Extraction 207(1988)373

Flow system; Spectrophotometry; Catalysts; Dental alloys 214 (1988)271

At. abs. spectrometry; Extraction; Metal complexes; Ore; Ammonium pyrrolidine dithiocarbamate, Methyl isobutyl ketone 217(1989)165

Spectrophotometry; Extraction 218(1989)111

Liquid chrom.; Acenaphthenequinone dioxime; Dimethyl glyoxime; Naphthalene; Preconcentration 230(1990)17

At. abs. spectrometry; Gold; Platinum; Rhodium; Silver; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

Kinetic analysis; Extraction; Equilibrium, Mechanism 245 (1991)225

At. abs. spectrometry; Fire assay; Geological materials; Rhodium; Platinum; Rocks; Nickel sulphide 246(1991)365

Ion exchange; Chromatography; Copper; Base metals 248 (1991)535

**Palladium halide complex**

Potentiometry; Titrimetry; Coated wire electrode; PVC membrane, Aluminium 209(1988)357

**Pancuronium**

Potentiometry; Ion-selective electrodes; Membrane electrodes; Pharmaceuticals; Tubocurarine; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

**Papain**

Electrophoresis; Proteinase; Enzyme activities; Trypsin; Chromogenic substrates, *N*-Benzoyl-DL-arginine *p*-nitroanilide 238(1990)331

**Paper**

Amperometry; Cyclic voltammetry; Pulp bleaching; Chlorine dioxide; Process analysis; In-line monitoring 238(1990)223

**Paracetamol**

Flow system; Kinetic analysis; Spectrophotometry; Single bead-string reactor; Optimization 204(1988)29

Flow system; Fluorimetry 231(1990)259

Amperometry; Acetaminophen; Biosensor; Blood; Dry-strip, Screen-printed 248(1991)361

**Paraffin inhibitor**

Principal components; Crude oil; Oil additive 229(1990)267

**Parallel plate laminar flow**

Flow system; Laminar dispersion; Mathematical modelling; Convective-diffusion equation, Peclet number, Concentration distribution 247(1991)51

**Parameter set**

N.m.r. spectrometry; Organic compounds;  $sp^3$ -Hybridized carbon atoms,  $^{13}C$  chemical shift prediction 233(1990)213

**Paraoxon**

Flow system; Amperometry; Nitrophenol; Parathion 228(1990)317

Flow system; Enzyme reactor; Pesticides; Organophosphorus, Continuous-flow, Stopped-flow, Immobilized acetylcholinesterase 236(1990)267

**Paraquat**

Kinetic analysis; Polarography; Biological samples; Photoreduction; Soils; Waters 209(1988)79

Titrimetry; Potentiometry; Diquat; Ion-pair; Bisquaternary cation 226(1989)177

**Parathion**

Flow system; Amperometry; Nitrophenol; Paraoxon 228(1990)317

**Parenteral solutions**

Flow system; Spectrophotometry; Sodium hydrogensulphite 220(1989)281

**Partial least squares**

Titrimetry; Acid-base 206(1988)125

Principal components; Multivariate component analysis; Trace metals; Tungsten wire 241(1990)147

Principal components; Chemometrics; Cluster analysis; Ethanol; Solvent identification; Tin oxide thin-film sensor array 250(1991)257

**Partial least squares modeling**

Flow system; Spectrophotometry; Multicomponent determinations 211(1988)1

Octane number; Subgraph descriptors 235(1990)177

**Partial least squares regression**

Spectrophotometry; Multivariate calibration; Scaling methods 248(1991)459

**Partition coefficients**

Liquid chrom.; Carboxylic acid; Micelle; Ion-exclusion 230(1990)9

Flow system; Spectrophotometry; Extraction; Octan-1-ol-water 248(1991)493

**Paspalitremis**

Liquid chrom.; Mass spectrometry; Mycotoxins; Paxilline, Paspaline, Paspalinine, Paspalicine, Diode-array detection, Computer library matching 244(1991)1

**Passive monitors**

H.p.l.c.; Conductometry; Air; Nitrate; Nitrite; Sulphate 217(1989)135

**Peak characterization**

Chromatography; Gram-Charlier series, Edgeworth-Cramér series 249(1991)337

**Peak homogeneity**

Liquid chrom.; Photodiode-array detector 223(1989)175

**Peak parameters**

Chromatography; Log-normal model 248(1991)59

**Peak profiles**

Flow system; Spectrophotometry; Manifold components 220(1989)293

**Peak purity control**

Chromatography; Factor analysis 246(1991)379

**Peak resolution**

H.p.l.c.; Kalman filter 212(1988)81

**Peak shape**

Flow system; Moment analysis 229(1990)35

**Peak temperature history**

Raman spectrometry; Calibration; Carbon; Carbon phenolic heat-shields; Multivariate, Loading vectors 240(1990)35

**Peanut butter**

H.p.l.c.; Amperometry; Aflatoxins 208(1988)343

**Pendimethaline**

Gas chromatography; Mass spectrometry; Extraction; Waters 208(1988)331

**Penicillin**

Flow system; Potentiometry; Enzyme reactor; Pharmaceuticals 209(1988)123

Potentiometry; Penicillin amidase; Sensor; Field effect transistor 226(1989)87

Flow system; Amperometry; Pharmaceuticals; Expert system; Enzymatic hydrolysis; Validation program 233(1990)65

Flow system; Biosensor; Field effect transistor; Glucose; Urea; Cephalosporin C; Process analysis 238(1990)201

Potentiometry; Enzyme electrodes; Fermentation broth; Milk; Glass pH electrode, Penicillinase 249(1991)405

#### **Penicillin amidase**

Potentiometry; Penicillin; Sensor; Field effect transistor 226(1989)87

#### **Penicillin fermentation**

Flow system; Bioreactors; Fermentation; Membrane modules; Process monitoring; Ammonium, Glucose 249(1991)123

#### **Pentachlorophenol**

Mass spectrometry; Gas chromatography; Foods; Honey; Sep-Pak extraction 247(1991)21

#### **Pentadienes**

Mass spectrometry; Isomer distinction; Quadrupole ion trap 215(1988)223

#### **Peptides**

Fluorimetry; H.p.l.c.; Amino acids; Carboxylic acids; Laser-induced, Selective derivatization 205(1988)15

Electrophoresis; Recombinant DNA technology; Capillary zone 213(1988)215

T.l.c.; Mass spectrometry; Steroids; Surface derivatization; Secondary ion 218(1989)231

Mass spectrometry; Surface excess concentration; Fast atom bombardment 223(1989)349

Flow system; Spectrophotometry; Biological membranes; Protein; *o*-Phthalaldehyde, Post-column reaction, Subcellular particles 231(1990)249

Mass spectrometry; Structure determination; Computer program; Protein; Antibiotics; MASSPEC, Graphics-based data system 237(1990)459

Potentiometry; Enzyme electrode; Coated-wire electrode, Trypsin,  $\alpha$ -Chymotrypsin 239(1990)13

Liquid chrom.; Amino acids; Micellar liquid chromatography, Micellar electrokinetic capillary chromatography, Acid-base ionization constants 239(1990)121

Mass spectrometry; Hybrid tandem, Daughter ion abundance, Leucine-enkephalin, RF-only quadrupole collision cell 241(1990)201

Mass spectrometry; Bioorganic molecules; Formylamino-ethanol; Oligosaccharides; Fast atom bombardment, Matrix 241(1990)219

Ion exchange; Amino acids; Hollow fibres; Nafion membrane; Permeation 244(1991)21

Mass spectrometry; Proteins; Time-of-flight mass spectrometer; Matrix-assisted, Laser desorption, Pulsed nitrogen laser 248(1991)541

Mass spectrometry; Adipokinetic hormones; Hormones; Structure determination; *Locusta migratoria*, Fast atom bombardment, Tandem 248(1991)553

Liquid chrom.; Electrophoresis; Haemoglobin; Isoelectric focusing; Proteins; Anion-exchange, Red blood cells 249(1991)169

Mass spectrometry; Liquid chrom.; Electrophoresis; Ion exchange; Chromatography; Histone H2A (1-53)-NH<sub>2</sub>; Synthesis, Purification, Characterization 249(1991)215

#### **Perchlorate**

Flow system; Spectrophotometry; With Brilliant Green 217(1989)177

Potentiometry; Liquid membrane electrodes; Ion-pair complexes 231(1990)69

#### **Perfluorokerosene**

Mass spectrometry; Mass calibrant; Perfluorotributylamine; Poly(perfluoropropylene oxide); Negative ionization, Magnetic sector 229(1990)163

#### **Perfluorotributylamine**

Mass spectrometry; Mass calibrant; Perfluorokerosene; Poly(perfluoropropylene oxide); Negative ionization, Magnetic sector 229(1990)163

#### **Periodate**

Flow system; Spectrophotometry; Fungicide; Malachite green; Manganese ethylenedisithiocarbamate 222(1989)269

#### **Permanganate**

Spectrophotometry; Flow system 217(1989)183

#### **Peroxidase-like catalysed oxidation**

Fluorimetry; Kinetic analysis; Hydrogen peroxide; Glucose; Homovanillic acid; Manganese tetrakis (sulphophenyl)porphyrin-catalysed oxidation 233(1990)299

#### **Peroxyoxalate**

Liquid chrom.; Chemiluminescence; Amine; Aminocoumarin; Luminarine 223(1989)309

Liquid chrom.; Chemiluminescence; Oxo-Bile acid; Oxo-Steroid 227(1989)21

Chemiluminescence; Biexponential degradation; Bis(dinitrophenyl) oxalate; Diphenylanthracene 227(1989)37

Chemiluminescence; Carboxylic acids; Luminol; Polyaromatic hydrocarbons 250(1991)145

#### **Pesticide mixture**

Fluorimetry; Carbaryl; Fuberidazol; Warfarin; Variable-angle scanning 228(1990)293

#### **Pesticides**

Flow system; Amperometry; Fenthion; Fenitrothion 209(1988)205

Piezoelectric sensing; Antibody-coated sensors; Toluene; Film-free 217(1989)111

Liquid chrom.; Fluorimetry; Glyphosate; Aminomethylphosphonic acid; Waters; Post-column fluorogenic labelling 233(1990)311



Flow system; Enzyme reactor; Waters; Immobilized acetylcholinesterase; Automated enzyme inhibition; Magnetic device 234(1990)113

Flow system; Liquid chrom.; Spectrophotometry; Mass spectrometry; Extraction; Organic pollutants; Chlorinated phenoxy acids; Waters; On-line continuous-flow; Organophosphorus 234(1990)119

Flow system; Spectrophotometry; Capillary flow cell; Optical fibres 234(1990)141

Diff. pulse polarography; D.c. polarography; Pirimicarb; Carbamates; Tast 234(1990)309

Chromatography; Foods; Sample preparation; High fat 236(1990)77

Chromatography; Sample preparation; Pharmaceuticals; Biological samples; Serum; Blood; Extraction 236(1990)99

Liquid chrom.; Gas chromatography; Mass spectrometry; Pyrimidinol; Corn 236(1990)173

Flow system; Enzyme reactor; Paraoxon; Organophosphorus; Continuous-flow; Stopped-flow; Immobilized acetylcholinesterase 236(1990)267

I.r. spectrometry; Raman spectrometry; Mirex; Hydrogen-substituted degradation products 240(1990)41

I.r. spectrometry; Gas chromatography; Environmental samples; Polynuclear aromatic hydrocarbons; Fourier transform; Low temperature 240(1990)205

Gas chromatography; Mass spectrometry; Chlorotriazine pesticides; Organophosphorus pesticides; Soils 243(1991)259

Gas chromatography; Mass spectrometry; Water; 2,2-Dimethoxypropane 244(1991)9

Gas chromatography; Extraction; Fats; Lipids; Oils; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259

Diff. pulse polarography; Micellar solutions; Organochlorine pesticides; Dieldrin; Endosulfan; Endosulfan sulphate; Surfactants 246(1991)293

#### **Petroleum**

Gas chromatography; Mass spectrometry; Biomarkers; Hopanes; Triterpanes; Crude oil 235(1990)375

At. abs. spectrometry; Flame; Iron; Nickel; Cobalt; Molybdenum; Catalysts; Microwave oven digestion; Slurry 235(1990)405

#### **Petroleum fractions**

Gas chromatography; Precalculation of optimum column temperature 201(1987)207

#### **Petroleum hydrocarbons**

Gas chromatography; Mass spectrometry; Solid-phase extraction cartridges 204(1988)135

#### **Petroleum pipelines**

Laser Doppler anemometry; Process analysis; Mixers; Jet mixing; Waters; Crude oil 238(1990)251

#### **Petroleum reforming**

Gas chromatography; Process analysis; Octane number 238(1990)149

#### **pH**

Flow system; Potentiometry; Ammonia; Hydrazine; Power plant steam cycle 214(1988)367

Binary system 221(1989)295

Amperometry; Superoxide dismutase; Xanthine oxidase 222(1989)247

Flow system; Potentiometry; Field effect transistor 222(1989)373

Potentiometry; Liquid junction 223(1989)441

Kinetic analysis; Temperature 224(1989)275

Potentiometry; Ion-selective electrode 229(1990)153

Spectrophotometry; Titrimetry; Fibre optic; Sensor; Acid-base 230(1990)35

Potentiometry; Hydrophobic polymer; Potassium; Ion-sensitive field effect transistor 230(1990)67

Spectrophotometry; Flow system; Waters; Lake; Dye reagents 231(1990)21

Flow system; Ion-sensitive field effect transistor; Ammonium; Waters; Flow-through 231(1990)53

Waters; Sea water; Dye fibre-optic pH sensor; Phenol red; Amberlite resin 232(1990)337

At. abs. spectrometry; Hydride generation; Selenium; Selenium hydride stripping; Acid dissociation 232(1990)405

Flow system; Spectrophotometry; Amperometry; Potentiometry; Power plants; Process analysis; Water-steam cycles; Ion-selective electrodes; Control parameters 234(1990)167

Acid dissociation constants; Reference values, Standard solutions, Computer program 239(1990)129

Liquid chrom.; selectivity optimization; Octadecyl-modified silica, Reversed-phase 250(1991)1

#### **pH reference value standards**

Potentiometry; 2-Propanol-water mixtures 207(1988)211

#### **pH sensor**

Cyclic voltammetry; Waters; Coated-wire electrode; Chemically modified electrode, Poly(4,4'-diaminobiphenyl) 244(1991)165

#### **pH-static enzyme sensor**

Enzyme reactor; Ion-sensitive field effect transistor; Enzymatic membrane 233(1990)49

#### **Pharmaceutical analysis**

Principal components; Pattern recognition 223(1989)149

#### **Pharmaceutical preparation**

Flow system; Amperometry; Vitamin D 225(1989)247

Spectrophotometry; Dextromethorphan hydrobromide; Phenylpropanolamine hydrochloride; Second-derivative 226(1989)159

#### **Pharmaceutical sample**

Liquid chrom.; Expert system; Ruggedness test 228(1990)145

#### **Pharmaceuticals**

Spectrophotometry; T.l.c.; Isoniazid; Second-derivative, Scraped-spot 201(1987)357

Flow system; Serum; Sulphonamides; Urine 204(1988)271

Fluorimetry; Micellar media; Procaine; Solvent, Synchronous 205(1988)139

Diff. pulse polarography; Hydrazides; Isonicotinic acid hydrazide 206(1988)379

H.p.l.c.; Amperometry; Fluorouracil; Serum; Anodic 207(1988)183

N.m.r. spectrometry; Metformin hydrochloride 208(1988)321

Flow system; Potentiometry; Enzyme reactor; Penicillin 209(1988)123

Spectrophotometry; Ampicillin; Cloxacillin; Derivative spectroscopy 209(1988)175

Spectrophotometry; Ascorbic acid 209(1988)309

At. abs. spectrometry; Flow system; Anaesthetics; Indirect, Precipitation 215(1988)241

Kinetic analysis; Spectrophotometry; Acetaminophen 218(1989)313

Potentiometry; Kinetic analysis; Phytic acid; Urine; Crystalline growth of calcium oxalate 219(1989)89

Kinetic analysis; Potentiometry; Cephalixin; Cetyltrimethylammonium bromide; Sulphamethizole; Micellar catalysis 219(1989)295

Voltammetry; Adsorptive stripping; Ofloxacin 231(1990)129

Flow system; Amperometry; Penicillin; Expert system; Enzymatic hydrolysis; Validation program 233(1990)65

Spectrophotometry; Derivative spectroscopy; Sulphonamide; Bratton-Marshall reaction, Urine, Honey 233(1990)289

Liquid chrom.; Spectrophotometry; Amperometry; Coulometry; Thienodiazepines 234(1990)175

Fluorimetry; Liquid chrom.; Phthalaldehyde; Fluorescamine; Triton; Cyclodextrin 234(1990)187

Flow system; Potentiometry; Diethylbarbiturate; Tubular electrode 234(1990)221

Flow system; At. abs. spectrometry; Methadone 234(1990)433

Chromatography; Sample preparation; Pesticides; Biological samples; Serum; Blood; Extraction 236(1990)99

Gas chromatography; Extraction; Urine; Drugs of abuse, Column lifetime and performance, Fused-silica capillary columns 236(1990)115

Cyclic voltammetry; Diff. pulse polarography; Celipitium; Carbon paste electrode; Lipid modification 236(1990)299

Chemiluminescence; Quinine; Quinidine; Continuous-flow 236(1990)463

Kinetic analysis; Spectrophotometry; Sulphonamides; Azo dye, Continuous addition of reagent 237(1990)353

Potentiometry; Ion-selective electrodes; Membrane electrodes; Pancuronium; Tubocurarine; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

Propoxyphene hydrochloride; Spectropolarimetry; Enantiomeric purity 241(1990)115

Mass spectrometry; Probe design; Continuous-flow fast atom bombardment 241(1990)209

Mass spectrometry; Adamantanamines; Biological samples; Mass fragmentography 241(1990)261

Flow system; Fluorimetry; Biosensors; Fibre-optic sensor; Foods; Glutamate; Oxygen optrode, Carbon dioxide optrode 248(1991)351

Spectrophotometry; Derivative spectroscopy; Vitamins; Third-derivative 248(1991)583

Bovine brain tissue; Gangliosides; DNA probes; Quality control; Dot-blot hybridization 249(1991)291

Amperometry; Flow system; Voltammetry; Nafion-coated electrodes; Promethazine; Cations 249(1991)489

### Pharmacokinetics

Liquid chrom.; Acetylsalicylic acid; Aspirin; Microdialysis sampling; Rats, In vivo 246(1991)181

### Pharmacological prediction

Substructure coding; Toxicological prediction; Graph theory 210(1988)203

### Phase separator

Flow system; Extraction; Coaxial, On-line, Benzyl alcohol, Carbon tetrachloride 247(1991)67

### Phase-transfer catalysis

Spectrophotometry; Alcohols; Dithiocarbonate 230(1990)203

### Phenanthroline

Liquid chrom.; Iron; Sulphosalicylate 224(1989)65

Voltammetry; Copper; Mercury electrode 230(1990)83

### Phenol sulphotransferase

Fluorimetry; Enzyme reaction; Hydroxybenzaldehyde substrate, Dexamethasone 234(1990)359

### Phenolic acids

Conductometry; Potentiometry; Titrimetry; Triethylamine, Tetrabutylammonium hydroxide 234(1990)339

### Phenolic compounds

Cyclic voltammetry; Flow system; Waters; Derivative 214(1988)375

### Phenols

Voltammetry; Graphite electrodes; Methoxyphenols; Polyvinylpyrrolidone coating, Anti-fouling 237(1990)141

### Phenols partition equilibria

H.p.l.c.; Anionic micelles 212(1988)171

### Phenothiazine derivatives

Phosphorimetry; Paper-substrate, Enhanced 204(1988)247

### Phenothiazines

Spectrophotometry; Derivative spectroscopy; Dissociation constants; Sparingly soluble 242(1991)131

### Phenylalanine

Flow system; Fluorimetry; Fermentation 213(1988)55

Potentiometry; Amino acids; Tyrosine; Membrane electrodes; Enzyme reaction; Decarboxylase 239(1990)23

**Phenylfluorone**

Spectrophotometry; Germanium 221(1989)183

**Phenylhydrazine**

Flow system; Spectrophotometry; Kinetic analysis; Hydrazine; Diode-array 225(1989)115

**Phenylmethylaroylpyrazolones**

Lutetium; Extraction; Steric effect, *Ortho* substituents, Tri-octylphosphine oxide 239(1990)277

**Phenylmethylstearoylpyrazolone**

Indium; Preconcentration; Silica gel 230(1990)175

**Phenylpropanolamine hydrochloride**

Spectrophotometry; Dextromethorphan hydrobromide; Pharmaceutical preparation; Second-derivative 226(1989)159

**Phenylthiourea solutions**

Polarography; Chlorine; Waters; Linear-sweep, Active 215 (1988)37

**Phenytol**

Fluorimetry; Immunoassay; Biosensor; Fibre-optic 227(1989)135

**Pheromones**

N.m.r. spectrometry; Dienes; Configurations; Fuzzy classification;  $^{13}\text{C}$  chemical shifts 233(1990)223

Gas chromatography; Sample preparation; Insects; Capillaries, Micro-reactor 236(1990)227

**Phloroglucinols**

Flow system; Liquid chrom.; Derivative spectroscopy; Photodiode-array detection, Post-column continuous-flow analysis, Computer-aided, Kosins 234(1989)89

**Phosphate**

Spectrophotometry; Foods; Stopped-flow, Time-difference 203(1987)35

Flow system; Spectrophotometry; Ion exchange; Arsenate; Silicate 204(1988)53

Spectrophotometry; At. abs. spectrometry; Extraction; Sulphide; Fluoride 208(1988)313

Potentiometry; Cobalt phthalocyanine; Poly(vinyl chloride); Coated-wire/field-effect transistor 224(1989)145

Potentiometry; Calcium carbonate; Crystal growth; Urine 229 (1990)249

Flow system; Chromatography; Fibre-optic sensor; Optosensing; Ammonia; Thin-layer detector 234(1990)31

Flow system; Amperometry; Enzyme reactor; Substrate recycling; Co-immobilized purine nucleoside phosphorylase-xanthine oxidase, Co-immobilized purine nucleoside phosphorylase-xanthine oxidase-alkaline phosphatase 238(1990)339

Amperometry; Enzyme electrode; Waters; Hydrogen peroxide, Eutrophication 239(1990)1

Spectrophotometry; Nitrate; Reference materials; Sea water; Autoclaving 248(1991)277

Spectrophotometry; Flow system; Acetate; Fermentation; Process analysis; *E. coli* 249(1991)101

Chromatography; Ion exchange; Arsenate; Germanate; Silicate; Molybdenum blue reaction, Post-column detection 249 (1991)539

**Phosphate glasses**

Potentiometry; Ion-selective electrodes; Silver chloride; Alkali metal-free, Anion-selective, Ion chromatography, Electron probe microanalysis 237(1990)135

**Phosphatidylcholine**

Potentiometry; Choline-sensitive membrane electrode; Serum 217(1989)193

**Phosphine oxides**

At. abs. spectrometry; Extraction; Metal ions; Cobalt; Nickel; Zinc; Cadmium; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

**Phosphinic resin**

Ion exchange; Carboxylic resin; Cation affinity; Sulphonic resin 225(1989)323

**Phosphoantimonylmolybdenum blue**

Spectrophotometry; Acidity; Kinetics; Molybdate 229(1990)115

**Phosphocellulose**

Liquid chrom.; Enzyme purification; Recombinant DNA 249 (1991)195

**Phospholipid**

Mass spectrometry; Immobilization; X-ray photoelectron spectroscopy; Time-of-flight, Secondary-ion 225(1989)369

I.r. spectrometry; Langmuir-Blodgett films; Valinomycin; Fourier transform; ISFET; Potassium; Structural characterization, Micro-ATR 240(1990)29

**Phospholipid-coated mercury electrodes**

Voltammetry; Organic micropollutants; Waters 207(1988)47

**Phosphonic acid resin**

Ion exchange; Cation affinity series 209(1988)363

**Phosphorus**

Electrotherm. atomization; At. abs. spectrometry; Plant materials; Tea leaves 208(1988)351

Flow system; Spectrophotometry; Biological tissues; Aluminium block digestion 209(1988)299

Spectrophotometry; Waters; Vanadomolybdophosphate 211 (1988)119

Spectrophotometry; Flow system; Capillary digester; Waters 214(1988)229

Electrotherm. atomization; At. abs. spectrometry; Platform 219(1989)127

Opto-acoustic spectroscopy; Molybdenum blue, Anion-exchange resin beads 233(1990)135

Flow system; Spectrophotometry; Waters; Photodiode detector, Simplex reagent optimization, Silicate interference, Molybdophosphate 234(1990)409

Flow system; Amperometry; Microwave digestion; Waters 236(1990)345

Spectrophotometry; Rocks; Minerals; Decomposition, Room temperature 237(1990)251

Flow system; Nitrogen; Waters; Process analysis; Waste-water treatment plant, Biological removal 238(1990)191

Spectrophotometry; Waters; Long capillary cell detector 244(1991)63

Reverse osmosis; Fresh water 244(1991)269

#### **Photo-cured polymer membrane**

Flow system; Potentiometry; Potassium-selective electrode; Valinomycin 204(1988)329

#### **Photo-excitation**

Fluorimetry; Hydrolysis; Methoxyquinoline; Ethanol 227(1989)165

#### **Photo-induced interaction**

I.r. spectrometry; Alumina; Fourier transform; Rhenium; Hydroxylated alumina surface 240(1990)211

#### **Photoacoustic spectroscopy**

Opto-acoustic spectrum; Acoustic emission; Enzyme reactions; Catalase, Hydrogen peroxide, Oxygen effervescence 246(1991)43

#### **Photocatalytic oxidation**

Conductometry; Total organic carbon; Waters; Carbon dioxide 233(1990)171

#### **Photochemical derivatization**

Fluorimetry; Flow system; Reserpine; Pharmaceutical formulations 245(1991)101

#### **Photochemical reaction**

Fluorimetry; Mefloquine; Antimalarial 227(1989)325

#### **Photochromic material**

Principal components; Pattern recognition; Glass technology 223(1989)247

#### **Photochromism**

Kinetic analysis; Spectrophotometry; Norbornadiene derivatives; Tetraphenylporphinecobalt(II); Porous glass beads, Immobilized 243(1991)97

#### **Photodiode-array detector**

Liquid chrom.; Peak homogeneity 223(1989)175

#### **Photoelectrochemical detector**

H.p.l.c.; Amperometry; Aldehydes; Ketones; Mechanism, Alkyl, Aryl 215(1988)45

#### **Photographic additives**

Titrimetry; Potentiometry; Conductimetry/oscillometry; Mesoionic compounds; Silver complexes; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248(1991)603

#### **Photographic developer**

H.p.l.c.; Amperometry; Hydroquinone; Metol; Reversed-phase, Ion-pair 208(1988)337

#### **Photographic fixers**

Potentiometry; Flow system; Silver; Indirect 220(1989)287

#### **Photoinduced fluorogenic reactions**

Fluorimetry; Flow system; Hydrogen peroxide; 4-Hydroxy-phenylacetic acid 243(1991)207

#### **Photoionization spectroscopy**

Flow system; Auto-by-cross correlation; Signal processing; Transient signals; Transient photocurrent, Laser-excited photoionization 248(1991)195

#### **Photolithographic patterning**

Ion-selective electrodes; Membrane electrodes; Nitrate; Acrylate-based 243(1991)179

#### **Photomicrography**

Fluorimetry; Densitometry; Tissue 227(1989)235

#### **Photon counting system**

Chromatography 246(1991)151

#### **Photoreduction**

Kinetic analysis; Polarography; Biological samples; Paraquat; Soils; Waters 209(1988)79

#### **Photosensitive compounds**

Flow system; Kinetic analysis; Amperometry; Oxalate; Iron(III) 234(1990)227

#### **Phthalaldehyde**

Fluorimetry; Chinese hamster; Fluoronitro benzoxadiazole; Ovary cell 223(1989)299

Fluorimetry; Liquid chrom.; Fluorescamine; Triton; Cyclodextrin; Pharmaceuticals 234(1990)187

#### **Physical parameters of liquids**

Piezoelectric sensing; Oscillation behaviour 212(1988)61

#### **Physicochemical experiment**

Spectrophotometry; Rate constant 221(1989)319

#### **Physiological fluids**

H.p.l.c.; Voltammetry; Foods; Disaccharides; Monosaccharides; Electrocatalytic chemically modified electrode 206(1988)85

#### **Physiological state**

Fluorimetry; Bacterial cultures; Fermentation; Mathematical models; Process analysis; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

#### **Phytic acid**

Potentiometry; Kinetic analysis; Pharmaceuticals; Urine; Crystalline growth of calcium oxalate 219(1989)89

#### **Phytoplankton bloom**

Polarography; Voltammetry; Surface-active substances; Humic substances 232(1990)131

Liquid chrom.; Waters; Sea water; Copper; Plankton ecosystem; Metal-organic interactions 232(1990)161

#### **Phytotoxicity**

Amperometry; Biosensors; Chloroplast membranes; Thylakoid membranes; Waters; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55

**Piezoelectric crystal**

Lipid; Impedance; Odorant 225(1989)399

Titrimetry; Acid-base 229(1990)205

Oscillating frequency; Density; Viscosity 230(1990)41

Titrimetry; Compleximetric; Precipitation 230(1990)51

Conductimetry/oscillometry; Electrodeless; Mass sensor 243(1991)273

Metal ions; Adsorption; Oscillation frequency 245(1991)71

**Piezoelectric detection**

Titrimetry; Conductimetry/oscillometry; Iron; Dichromate, Permanganate, Redox 246(1991)421

Titrimetry; Conductimetry/oscillometry; Iodimetry; Thiosulphate, Thiocyanate, Ascorbic acid, Linear extrapolation 246(1991)425

**Piezoelectric sensor**

Quartz crystal resonator; Viscous liquids; Alcohols; Sugars 231(1990)317

**Pig kidney**

Liquid chrom.; Spectrophotometry; T.l.c.; Carazolol; Tranquillizer 225(1989)137

**Pilocarpine**

Polarography; Nickel 230(1990)97

**Pineapple**

Mass spectrometry; Isotope dilut. analysis; Lead; Foods; Isotope systematics; Soldered cans, Welded cans, Clean laboratory 235(1990)367

**Pipecuronium bromide**

Mass spectrometry; Aminoandrostane quaternary salts; Steroids; Fast atom bombardment, Arduan 241(1990)289

**Pirimicarb**

Diff. pulse polarography; D.c. polarography; Carbamates; Pesticides; Tast 234(1990)309

**Piston burette**

Titrimetry; Sodium hydroxide; Calibration 223(1989)461

**Placental lactogen**

Immunoassay; Kinetic analysis;  $\alpha$ -Fetoprotein; Immunoglobulin G; Fluoride ion-selective electrode 224(1989)329

**Planar electrochemical microcell**

Voltammetry; Surface modification 219(1989)45

**Plankton ecosystem**

Liquid chrom.; Waters; Sea water; Copper; Phytoplankton bloom; Metal-organic interactions 232(1990)161

**Plant growth regulators**

Amperometry; Enzyme electrodes; Amines; Carbon paste-pea seedling sensor, Diamine oxidase, Hydrogen peroxide 243(1991)1

**Plant materials**

Electrotherm. atomization; At. abs. spectrometry; Phosphorus; Tea leaves 208(1988)351

H.p.l.c.; Caffeine; Morphine; Quinine; Serum; Supercritical fluid extraction 213(1988)237

Flow system; Solid samples; Sample introduction; Ultrasonic irradiation; Iron; Direct introduction, Leaching 242(1991)283

Diff. pulse voltammetry; Molybdenum; Waters; Nitrate, 8-Hydroxyquinoline 244(1991)193

Flow system; Spectrophotometry; Turbidimetry/nephelometry; Sulphur; Waters; Two-line manifold 249(1991)479

**Plant tissue-vitreous carbon electrodes**

Cyclic voltammetry; Diff. pulse voltammetry; Flow system; Biosensors; Mushroom, Potato, Horseradish 242(1991)259

**Plants**

Spectrophotometry; Chemical reagents; Manganese 204(1988)355

Flow system; At. abs. spectrometry; Zinc; Flame 206(1988)253

Voltammetry; Cobalt; Adsorption stripping 207(1988)103

Potentiometry; Fluorine; Vegetables; Open-flame ashing, Microdiffusion 212(1988)133

Kinetic analysis; Flow system; Spectrophotometry; Ion exchange; Molybdenum 214(1988)239

Isotope dilut. analysis; Extraction; Sulphur 219(1989)97

**Plasma**

Fluorimetry; Salicylate 201(1987)335

Flow system; Spectrophotometry; Etoposide; On-line electrochemical derivatization; Teniposide; Diode-array detection 202(1987)35

Fluorimetry; Enzyme activities; Microlitre volumes 205(1988)97

Potentiometry; Pyridostigmine; Enzymatic 206(1988)57

Fluorimetry; Chloroquine; Extraction 206(1988)339

Amperometry; Flow system; Glucose; Lactic acid; Computer-controlled 209(1988)231

Flow system; Spectrophotometry; Glucose 214(1988)455

H.p.l.c.; Doxorubicin; Reversed-phase ion-pair 217(1989)149

Fluorimetry; Liquid chrom.; Adenine derivative; Chloroacetaldehyde; Chlorofluorobenzyladenine 227(1989)189

Liquid chrom.; Calcium channel; Chloroquine 228(1990)155

Enzyme reactor; Blood; Glucose; Cellulose membranes; Dialysis cell, NADH, Haematocrit 231(1990)165

N.m.r. spectrometry; Contrast agents; Computer simulation; NMR imaging, Diethylenetriaminepentaacetic acid complexes, Equilibria 233(1990)85

Liquid chrom.; Azidothymidine; AZT, AIDS, Dialysis, Pre-concentration, Silver(I)-thiol 236(1990)165

Potentiometry; Enzyme reactor; Pyridostigmine; Calibration; Optimization 236(1990)431

Amperometry; Hydroxybutyrate; Blood; Biosensor; Enzyme electrodes; Platinized carbon electrode, NADH 237(1990)99

Ion exchange; Chromatography; Oxalate; Enzymatic method; Chloride removal 237(1990)299



Liquid chrom.; Prednisolone; Prednisone; Fluorescence detection, Quinoxaline derivatives 242(1991)113

## Plasmas

Ion exchange; Emission spectrometry; Geological samples; Gold; Palladium; Platinum 201(1987)95

Spectrophotometry; Emission spectrometry; Silica speciation; Waters; High-purity, Inductively coupled 204(1988)339

Principal components; Emission spectrometry; Inductively-coupled 206(1988)203

H.p.l.c.; Emission spectrometry; Geological samples; Rare-earth elements; Inductively-coupled 207(1988)149

Emission spectrometry; Extraction; Geological materials; Silver 207(1988)171

Emission spectrometry; Computer-controlled rapid-scanning echelle monochromator; Sediments; Soils; Trace elements; Inductively-coupled 207(1988)269

Emission spectrometry; Liquid chrom.; Geological samples; Rare earth elements; Inductively-coupled, Oxalate coprecipitation, Cation-exchange 208(1988)163

Emission spectrometry; Simplex optimization; Multi-element, Inductively-coupled, Wide-bore injector, Minimum interference 209(1988)135

Mass spectrometry; Signal suppression; Trace metals; Inductively-coupled, Internal standard 211(1988)91

Emission spectrometry; H.p.l.c.; Flow system; Microliter samples, Peak-shaped input, Inductively-coupled 215(1988)143

Mass spectrometry; Review; Plasma source 216(1989)1

Flow system; Emission spectrometry; Boron; Waters; Inductively coupled 218(1989)69

Emission spectrometry; Ruthenium; Enhancement by periodic acid, Inductively coupled 218(1989)77

At. fluor. spectrometry; Environmental samples; Inductively coupled, Gas-phase atomization 231(1990)85

Mass spectrometry; Waters; Sea water; Barium; Isotope dilution; Inductively coupled 232(1990)323

Gas chromatography; Solvent venting interface; Microwave-induced 233(1990)149

Emission spectrometry; Chromium; Inductively coupled, Simultaneous trace element determination 233(1990)243

Dry ashing; Organic matrices; Nitrogen; Microwave, Low-pressure oxygen atmosphere 233(1990)321

Emission spectrometry; Arsenic; Inductively coupled, Tandem on-line continuous separation 234(1990)133

Flow system; Matrix matching; Waters; Salinity; Inductively coupled, Sodium 234(1990)207

Gas chromatography; Methylmercury; Waters; Sea water; Microwave-induced plasma detection, Headspace, Dithiocarbamate resin preconcentration, Speciation 234(1990)417

Mass spectrometry; Laser ablation; Rocks; Minerals; Geological materials; Inductively coupled 235(1990)381

At. abs. spectrometry; Gold; Silver; Graphite furnace, Zeeman effect background correction, Copper-gold-silver salt mixture, Rat, Anti-inflammatory 235(1990)393

Activ. analysis; Mass spectrometry; Emission spectrometry; Rare earth elements; Rocks; Isotope dilution, Inductively coupled 236(1990)487

Emission spectrometry; At. abs. spectrometry; Electrotherm. atomization; Vanadium; Titanium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139

Mass spectrometry; Boron; Titanium; Inductively coupled; Reference material, Homogeneity 244(1991)115

Mass spectrometry; Lithium; Biological samples; Serum; Foods; Inductively coupled, Standard Reference Materials 244(1991)259

Mass spectrometry; Isotope dilution; Sea water; Uranium; Waters; Marine sediment pore waters 245(1991)83

Emission spectrom.; Boron; Direct current; Silica; Acid decomposition, Mannitol 245(1991)207

Flow system; Alloys; Stainless steels; Inductively coupled, Multi-elemental analysis, Flow-through electrolytic cell 245(1991)211

Emission spectrom.; Germanium compounds; Inductively coupled 247(1991)1

Flow system; Emission spectrom.; Preconcentration; Sea water; Trace metals; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241

Emission spectrom.; Geological materials; Gold; D.c. argon plasma 248(1991)569

Mass spectrometry; Biological samples; Inductively coupled, Bovine liver, Fish tissue 249(1991)495

Emission spectrom.; Spectrophotometry; Geological materials; Silica; Centrifugation, Differentiation of colloidal and dissolved silica, Filtration, Inductively coupled, Tuffs 249(1991)509

Mass spectrometry; Elemental analysis; Laser desorption; Inductively coupled, Time-of-flight 250(1991)61

Emission spectrom.; Magnesium; Inductively coupled, Optimization 250(1991)85

## Plasminogen activator

Liquid chrom.; Glycoprotein variants; Hydrophobic interaction chromatography; Proteins 249(1991)201

## Plasticizer

Potentiometry; Lanthanum polyalkoxylate complex; Poly(vinyl chloride) 223(1989)449

## Platelet antibodies

Fluorimetry; Standardization 227(1989)251

## Platinum

Ion exchange; Emission spectrometry; Geological samples; Gold; Palladium; Plasmas 201(1987)95

Electrotherm. atomization; At. abs. spectrometry; Extraction; Palladium; Rocks; Soils; Iodo complexes 204(1988)333

X-ray fluores. spectrometry; Catalysts; Comparison 209(1988)185

Voltammetry; Sea water; Cathodic stripping 211(1988)129

At. abs. spectrometry; Trace metals; Flame, Pulse aspiration 211(1988)311

At. abs. spectrometry; Emission spectrometry; Mass spectrometry; Gold; Solvent extraction; Zeeman effect, Graphite furnace 229(1990)227

At. abs. spectrometry; Gold; Palladium; Rhodium; Silver; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

At. abs. spectrometry; Iridium; Rhodium; Ruthenium; Matrix extraction, Graphite furnace 236(1990)385

At. abs. spectrometry; Fire assay; Geological materials; Palladium; Rhodium; Rocks; Nickel sulphide 246(1991)365

### Platinum group metals

H.p.l.c.; Ion exchange; Gold; Chloro complexes, Bonded phase silica 220(1989)195

### Platinum microparticle

Amperometry; Glucose oxidase; Polypyrrole 228(1990)311

### Platinum-iridium electrode

Voltammetry; Anod. stripping voltammetry; Mercury film, Cyclic voltammetry 234(1990)275

### Platinum-silica catalysts

I.r. spectrometry; Carbon monoxide; Nitric oxide; Adsorption 240(1990)139

### Plutonium

Liquid chrom.; Extraction; Soils;  $\alpha$ -Spectrometry 220(1989)103

### Plutonium nitride

Gas chromatography; Nitrogen; Nuclear fuels; Uranium nitride; Oxidation, Glove-box 239(1990)107

### Polar compounds

Mass spectrometry; Fuels; Methanol chemical-ionization 211(1988)83

### Polarization

I.r. spectrometry; Dichroism; Fourier transform, Linear and circular dichroic spectra 240(1990)145

I.r. spectrometry; Grazing incidence; Reflection-absorption; Organic thin films, Enhancement 240(1991)305

### Polychrom A

Atmosphere; Preconcentration; Volatile organic compounds 226(1989)213

### Poly(dithiocarbamate) resin

Ion exchange; Preconcentration; Ion-exchange-chelating resin, Phase ratio 235(1990)427

### Poly(ester-sulfonic acid) coatings

Ion exchange; Flow system; Biosensors; Glucose sensors 245(1991)139

### Poly(ethylene) state density

Molecular dynamics simulation; Temperature dependence, Multiple signal classification 235(1990)143

### Poly(ethyleneimine)

Membrane filtration; Metal ion; Quinolinol 230(1990)171

### Poly(hydroxamic acid) resin

Flow system; At. abs. spectrometry; Chromium; Preconcentration 236(1990)469

### Poly(hydroxyethyl methacrylate)

Potentiometry; Sensor; Silylation; Semiconductor, Ion-sensitive field effect transistor 230(1990)59

### Poly(methylthiophene) conducting film

Potentiometry; Iodide; Ion-selective electrodes; Graphite-coated electrode 248(1991)163

### Poly(perfluoropropylene oxide)

Mass spectrometry; Mass calibrant; Perfluorokerosene; Perfluorotributylamine; Negative ionization, Magnetic sector 229(1990)163

### Poly(vinyl alcohol)

Amperometry; Enzyme electrodes; Lactate; Gamma irradiation; Lactate oxidase, Platinized graphite, Hydrogen peroxide 243(1991)23

### Poly(vinyl chloride)

Fluorimetry; Reflectance spectrometry; Fibre optic; In situ; Sensor; Trinitrotoluene 221(1989)1

Potentiometry; Naphtho-crown ether; Potassium; Ionophore 222(1989)253

Potentiometry; Lanthanum polyalkoxylate complex; Plasticizer 223(1989)449

Potentiometry; Cobalt phthalocyanine; Phosphate; Coated-wire/field-effect transistor 224(1989)145

Raman spectrometry; Polyene sequence length; Dehydrochlorination; Resonance, Nickel(II) maleate 240(1990)97

### Polyacrylic acid

Polarography; Cadmium; Polymethacrylic acid; Zinc 229(1990)93

### Polyamines

Spectrophotometry; Flow system; Amine oxidases; Enzyme reactor; Cells; Immobilized, Hydrogen peroxide, Sepharose 237(1990)391

### Polyamino acids

Liquid chrom.; Viscometry; Continuous differential, Polybenzyl glutamate, Poly-L-tryptophan 249(1991)209

### Polyaniline-Nafion electrode

Flow system; Chromatography; Ion exchange; Cyclic voltammetry; Alkaline earth metal ions; Alkali metal ions 246(1991)275

### Polyaromatic hydrocarbons

Chemiluminescence; Carboxylic acids; Luminol; Peroxyoxalate 250(1991)145

### Polyaza macrocycles

Potentiometry; Brønsted acids; Dissociation constants; Polyoxa-polyaza macrocycles; Water, Deuterium oxide 245(1991)271

### Polyazamacrocycles

At. abs. spectrometry; Waters; Sea water; Manganese; Preconcentration; Graphite furnace, Immobilized, Poly(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331

**Polycarbonate membrane**

Enzyme electrodes; Glucose; Blood; Hydrogen peroxide, Iso-propyl myristate 232(1990)357

**Polycyclic aromatic hydrocarbons**

Gas chromatography; Barium sulphophthalocyanines; Cobalt phthalocyanine; Adsorption, Thermal desorption 224(1989)1

Liquid chrom.; Fluorimetry; Waters; Air; Reversed-phase 234(1990)269

Gas chromatography; Soils; Spiking procedure, 2-Methoxy-ethanol extraction 237(1990)451

Fluorimetry; Waters; Sea water; Pulsed-laser, fibre-optic-based system, Decay times, Time-resolved 239(1990)45

Liquid chrom.; Extraction; Supercritical fluid extraction; Supercritical fluid chromatography, Microextractor cell geometry 248(1991)263

**Polyelectrolytes**

Conductometry; Titrimetry; Humic acids 232(1990)141

**Polyene sequence length**

Raman spectrometry; Poly(vinyl chloride); Dehydrochlorination; Resonance, Nickel(II) maleate 240(1990)97

**Polyethylene glycol**

Flow system; Molecular weight sensing; Refractive index gradient detection 246(1991)241

**Polyimide films**

I.r. spectrometry; Fourier transform; Silicon electronic devices; Langmuir-Blodgett films; Attenuated total reflectance 240(1990)81

Lanthanide complexation; Erbium; Circular dichroism spectroscopy; Factor analysis; Kalman filter 246(1991)1

**Polymer melts**

I.r. spectrometry; Process analysis; Fourier transform 238(1990)83

**Polymer modified electrodes**

Anod. stripping voltammetry; Diff. pulse voltammetry; Mercury electrodes; Copper; Lead; Cadmium 238(1990)345

**Polymer stressing**

Opto-acoustic spectrom.; Acoustic emission characterization; Potassium nitrate recrystallization; Descriptor distributions 246(1991)23

**Polymer swelling**

Fluorimetry; Fibre-optic sensor; Salt concentrations; Optical displacement, Sulphonated dextran, Sulphonated polystyrene 249(1991)373

**Polymer-coated electrodes**

Amperometry; Cyclic voltammetry; Electropolymerization; Glassy carbon electrodes; Resole prepolymer mixtures; Continuous-flow sensing 249(1991)395

**Polymer-modified electrodes**

Immunoassay; Voltammetry; Cyclic voltammetry; Anti-HSA; HSA; Immunosensors; Polypyrrole 249(1991)381

**Polymeric materials**

Conformational analysis; Structure/activity relations 235(1990)229

**Polymers**

Mass spectrometry; Potassium-ion ionization, Desorbed species 208(1988)99

Spectrophotometry; Carboxyl groups 219(1989)161

**Polymethacrylic acid**

Polarography; Cadmium; Polyacrylic acid; Zinc 229(1990)93

**Polynomial curve-fitting**

Calibration; Computer program; STATCAL-CALIBRA 241(1990)1

**Polynomial filter**

Spectrophotometry; Fourier-transform filter; Savitzky-Golay filter 222(1989)335

**Polynuclear aromatic hydrocarbons**

Emission spectrometry; Afterglow discharge 201(1987)317

Pattern recognition; Prediction of carcinogenicity 202(1987)237

H.p.l.c.; Fluorimetry; Carbon black extract; Shpol'skii effect 208(1988)183

Chemiluminescence; Micellar solution, Electrogenerated 215(1988)341

Gas chromatography; Mass spectrometry; Air; Diesel particulate; Nitrated polynuclear aromatic hydrocarbon 221(1989)53

Fluorimetry; Liquid chrom.; Argon-ion laser 227(1989)173

Liquid chrom.; Injection system; Sample introduction, Correlation chromatography 228(1990)193

Fluorimetry; Electrophoresis 229(1990)295

Liquid chrom.; Cyclodextrin complexes; Formation constants; Solubility; Non-inclusion association, Temperature dependence 232(1990)239

Fluorimetry; Shpol'skii technique; Mussels; Terns; Biological samples 232(1990)245

Flow system; Chemiluminescence; Electroluminescent compounds; Micelle-encapsulated, 9,10-Diphenylanthracene, Oxide-covered aluminium electrode 233(1990)199

Fluorimetry; Shpol'skii technique; Computerized data acquisition and processing 233(1990)207

I.r. spectrometry; Gas chromatography; Environmental samples; Pesticides; Fourier transform, Low temperature 240(1990)205

Fluorimetry; Liquid chrom.; Solubilization; Benzo[a]pyrene; Coal washing water 243(1991)115

Chromatography; Fluorescence quenching; Nitromethane 246(1991)65

Mass spectrometry; Kinetic analysis; Gas chromatography; Halogenated hydrocarbons; Chemical ionization, Fourier transform ion cyclotron resonance 246(1990)199

**Polyolefins**

Chromatography; Headspace analysis; Correlation chromatography 248(1991)271

**Polyoxa-polyaza macrocycles**

Potentiometry; Brønsted acids; Dissociation constants; Polyaza macrocycles; Water, Deuterium oxide 245(1991)271

**Polyphenols**

Flow system; Olive oil; Extraction; Iterative flow direction change 235(1990)441

**Polyprotic acid**

Gauss-Newton method; Ionization constant 222(1989)359

**Polyppyrole**

Amperometry; Glucose oxidase; Platinum microparticle 228(1990)311

Immunoassay; Voltammetry; Cyclic voltammetry; Anti-HSA; HSA; Immunosensors; Polymer-modified electrodes 249(1991)381

**Polyppyrole-based sensor**

Hydrazine; Ammonia; Air; Acrylic strips 239(1990)257

**Polystyrene**

Gas chromatography; Styrene monomer; Toluene solvent, Headspace 218(1989)345

I.r. spectrometry; Silica; Simulated spectra; Dielectric function 240(1990)187

**Polythioether**

Metal ion; Separation; Tetrathioether 221(1989)99

**Polyurethane foam**

Ion exchange; Dowex; Retention behaviour; Hydrochloric acid-potassium thiocyanate 229(1990)127

X-ray fluore. spectrometry; Germanium; Extraction; Molybdo-germanate 238(1990)423

**Pore water**

X-ray fluore. spectrometry; E.s.r.; Coprecipitation; Manganese 222(1989)169

**Porphyrimicrosensors**

Diff. pulse voltammetry; Biological cells; Biosensors; Nickel; Carbon fibre ultramicroelectrodes, Single cells 249(1991)35

**Porphyrimicrosensors**

Mass spectrometry; Alkylporphyrins; Fast atom bombardment, Copper-induced dealkylation 241(1990)233

Mass spectrometry; Metalloporphyrins; Fast atom bombardment, Demetallation 241(1990)281

**Potassium**

Flow system; Spectrophotometry; Extraction; Sodium; Waters; Silica column 214(1988)289

Ion exchange; Potentiometry; Liquid chrom.; Alkali metal ion; Valinomycin; Replacement ion chromatography 222(1989)95

Potentiometry; Naphtho-crown ether; Poly(vinyl chloride); Ionophore 222(1989)253

Potentiometry; Hydrophobic polymer; pH; Ion-sensitive field effect transistor 230(1990)67

Ion-sensitive field effect transistor; Membrane materials; Silicone rubber; Polymers 231(1990)41

Potentiometry; Blood; Serum; Ion-selective electrodes; Silicon rubber tubular electrode, Valinomycin-treated 231(1990)125

Spectrophotometry; Ion sensor; Lipophilic anionic dye; N-2,4-Dinitro-6-octyloxyphenyl-2',4'-dinitro-6'-trifluoromethylphenylamine, Neutral ionophore, Dibenzo-18-crown-6, Valinomycin 237(1990)155

Potentiometry; Ion-selective electrodes; Prussian blue; Thin films, Membranes 239(1990)7

I.r. spectrometry; Langmuir-Blodgett films; Phospholipid; Valinomycin; Fourier transform; ISFET; Structural characterization, Micro-ATR 240(1990)29

Spectrophotometry; Cryptohemispheraplexes; Chromogenic, Cryptand, Spherand 241(1990)127

Potentiometry; Ion-selective electrodes; Glassy carbon, Cobalt(II)-hexacyanoferrate(III) film 244(1991)39

Flow system; Voltammetry; Ion-sensitive field-effect transistors; Serum; Urine; Wall-jet cell, Silicone-rubber membrane 245(1991)159

Potentiometry; Alcohols; Membrane sensors; PVC-valinomycin 248(1991)323

**Potassium chloride**

Spectrophotometry; Flow system; Sulphite; Brine; Process analysis; 5,5'-Dithiobis(2-nitrobenzoic acid) 238(1990)171

**Potassium ion-selective electrode**

Potentiometry; Pyridine-based macrocyclic ionophore 208(1988)283

**Potassium nitrate recrystallization**

Opto-acoustic spectrom.; Acoustic emission characterization; Polymer stressing; Descriptor distributions 246(1991)23

**Potassium selective electrode**

Flow system; Potentiometry; Photo-cured polymer membrane; Valinomycin 204(1988)329

Potentiometry; Ultraviolet laser cured membrane 219(1989)135

Potentiometry; Comparison, Monoaza crown ethers, plasticizers 219(1989)141

**Power plant steam cycle**

Flow system; Potentiometry; Ammonia; Hydrazine; pH 214(1988)367

**Power plants**

Flow system; Spectrophotometry; Amperometry; Potentiometry; Process analysis; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167

**Preconcentration**

Flow system; Ion exchange; At. abs. spectrometry; Emission spectrometry; Extraction; Gas diffusion; On-line separation 214(1988)41

Spectrophotometry; Flow system; Ion exchange; Geological samples; Uranium 214(1988)279

Spectrophotometry; Flow system; Brine; Calcium; Magnesium 214(1988)439

- Flow system; At. abs. spectrometry; Extraction; C-18 bonded silica 216(1989)243
- Gas chromatography; Methylmercury; Natural waters 221(1989)259
- Chromium; Macroporous resin; Quinolinol; Sea water 224(1989)55
- Activ. analysis; Lead; Graphite furnace, Biological matrix 224(1989)139
- At. abs. spectrometry; Mercury; Seawater; Platinum-lined graphite furnace 225(1989)175
- Atmosphere; Polichrom A; Volatile organic compounds 226(1989)213
- Cyclic voltammetry; Modified electrode; Tifluadom 228(1990)265
- Flow system; Porous electrode 228(1990)323
- Amperometry; Chelating resin; Modified electrode; Silver; Carbon paste electrode 229(1990)213
- Liquid chrom.; Acenaphthenequinone dioxime; Dimethyl glyoxime; Naphthalene; Palladium 230(1990)17
- Flow system; Spectrophotometry; Crown ether; Extraction; Lead 230(1990)157
- At. abs. spectrometry; Cellulose sorbent; Copper; Quinolinol 230(1990)163
- Indium; Phenylmethylstearylpyrazolone; Silica gel 230(1990)175
- Aminopropyltriethoxysilane; Metal ion; Silica gel 230(1990)179
- Emission spectrometry; Nickel; Microwave-induced plasma; Biological samples; Nickel carbonyl, Chromosorb 231(1990)265
- At. abs. spectrometry; Waters; Sea water; Manganese; Polyazamacrocycles; Graphite furnace, Immobilized, Poly(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331
- At. abs. spectrometry; Cobalt; Extraction; Liquid surfactant membranes; Graphite furnace, Liquid-liquid 232(1990)389
- Chromatography; Spectrophotometry; Copper; Zinc; Cadmium; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393
- Flow-through porous electrodes; Metal ions; Mathematical model 232(1990)401
- Flow system; Spectrophotometry; Boron; Waters; Azomethine-H complex 234(1990)199
- Liquid chrom.; At. abs. spectrometry; Mercury; Speciation; Waters; Waste waters, Cold vapour, Microcolumn 235(1990)399
- Ion exchange; Poly(dithiocarbamate) resin; Ion-exchange-chelating resin, Phase ratio 235(1990)427
- At. fluor. spectrometry; Mercury; Air; Gold amalgamation, Cold vapour 236(1990)371
- At. abs. spectrometry; Waters; Environmental samples; Lead; Cadmium; Copper; Zinc; Evaporation; Snow, Ice, Contamination 236(1990)391
- Flow system; At. abs. spectrometry; Chromium; Poly(hydroxamic acid) resin 236(1990)469
- Gas chromatography; Review; Waters; Trace organic compounds; Liquid-liquid extraction, Solid sorbents, Headspace techniques, Gas extraction, Volatile compounds 237(1990)1
- At. abs. spectrometry; Cobalt; Aluminium alloys; Steels; Tetradecyldimethylbenzylammonium thiocyanate adsorbent, Naphthalene support, Nitroso-R salt 237(1990)201
- Actinides; Urine; Alpha spectrometry; Octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide extractant 238(1990)263
- Ion exchange; At. abs. spectrometry; Chromium; Waters 238(1990)273
- Ion exchange; Chromatography; Spectrophotometry; Aluminium; Pyrocatechol violet, Aqueous samples 238(1990)279
- At. abs. spectrometry; Nickel; Waters; Cellulose ion exchangers, Cellex CM, Graphite furnace 238(1990)285
- Activ. analysis; Rare earth elements; Biological samples; Substoichiometric precipitation, Calcium oxalate 239(1990)115
- Flow system; Conductimetry/oscillometry; Organohalogens; Combustion; Air 241(1990)71
- Diff. pulse voltammetry; Iron; Waters; Aluminium; Carbon paste electrodes; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137
- Spectrophotometry; Trace elements; Copper; Reductive matrix precipitation, Copper oxide, Copper thiocyanate 242(1991)99
- At. abs. spectrometry; Waters; Nickel; Extraction; Graphite furnace, Dithiocarbamate complex, Xylene 242(1991)209
- X-ray fluores. spectrometry; Rare earth elements; Quinolin-8-ol complexes, Activated carbon 242(1991)215
- Amperometry; Enzyme electrodes; Biocatalytic accumulation; Glucose 243(1991)17
- At. abs. spectrometry; Flow system; Gold; Ores; Amberlite XAD-8 resin 245(1991)7
- Flow system; At. emission spectrom.; Plasmas; Sea water; Trace metals; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241
- Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Copper; Mercury; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533
- Chromatography; Ion exchange; Cyanides; Ion-interaction chromatography; Metallo-cyanides 250(1991)21
- Prediction of carcinogenicity**  
Pattern recognition; Polynuclear aromatic hydrocarbons 202(1987)237
- Prediction of spectra**  
N.m.r. spectrometry; Artificial intelligence; Carbon-13, Coding system 217(1989)85
- Prednisolone**  
Spectrophotometry; Hydrocortisone; Tetrazolium salt 212(1988)273
- Liquid chrom.; Prednisone; Plasma; Fluorescence detection, Quinoxaline derivatives 242(1991)113



**Prednisone**

Liquid chrom.; Prednisolone; Plasma; Fluorescence detection, Quinoxaline derivatives 242(1991)113

**Predominance-zone diagrams**

Complexation equilibria; Equilibria; Multiconditional constants 246(1991)435

**Pressure decomposition**

Biological material; Nitric acid 226(1989)1

Biological material; Nitric acid 226(1989)17

Voltammetry; Biological material; Nitric acid 226(1989)31

**Pressure tuning vibrational spectroscopy**

I.r. spectrometry; Raman spectrometry; Hydrostatic pressure, Sodium and potassium decanoate 240(1990)151

**Printed liquidic circuits**

Immunoassay; Clinical test devices; Disposable analytical devices; Switch devices 249(1991)263

**Printed strip electrochemical sensor**

Amperometry; Ascorbic acid; Foods; Graphite, Tetra-cyanoquinodimethane modifier 243(1991)173

**Probabilistic classification**

Pattern recognition; SIMCA, ALLOC, CLASSY, LDA 209 (1988)1

**Probability theory**

Voltammetry; Digital simulation; Theoretical analysis of response 201(1987)295

**Probe design**

Mass spectrometry; Pharmaceuticals; Continuous-flow fast atom bombardment 241(1990)209

**Procaine**

Fluorimetry; Micellar media; Pharmaceuticals; Solvent, Synchronous 205(1988)139

**Process analysis**

Dynamic process model 216(1989)307

Flow system; Hydraulic model; Mathematical model 229 (1990)183

Flow system; Spectrophotometry; Amperometry; Potentiometry; Power plants; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167

Flow system; Sequential injection; Sinusoidal flow 237(1990)329

Sampling, Transduction, Signal processing 238(1990)3

Gas chromatography; Liquid chrom.; Deferred standard 238 (1990)17

Instrument maintenance 238(1990)45

Time-series analysis; Cusum technique 238(1990)55

Teaching; Education 238(1990)63

Automation; Robots; Biological oxygen demand; Yoghurt; Acidity 238(1990)71

Structured methods; Systems analysis; Specification techniques 238(1990)79

I.r. spectrometry; Polymer melts; Fourier transform 238 (1990)83

I.r. spectrometry; Fuel quality; Fibre optics; Multivariate calibration; Gasoline; Diesel fuel; Octane number, Cetane number 238(1990)95

Mass spectrometry; Fermentation gas analysis; Error analysis; Poly- $\beta$ -hydroxybutyrate, *Alcaligenes latus*, *Bacillus subtilis* 238(1990)101

Spectrophotometry; Cyanide; Membrane separation; Ores; Metallurgical samples; PTFE membrane, HCN diffusion 238 (1990)117

Gas chromatography; Deferred standard technique 238(1990)129

Gas chromatography; Concentration profile measurements; Distillation column control; Parameter estimation, Water-methanol-isopropanol 238(1990)139

Gas chromatography; Petroleum reforming; Octane number 238(1990)149

Titrimetry; Ion exchange; Chromatography; Gas treatment; Sulphur; Thiols; Automated titrator 238(1990)161

Spectrophotometry; Flow system; Sulphite; Brine; Potassium chloride; 5,5'-Dithiobis(2-nitrobenzoic acid) 238(1990)171

Flow system; Phosphorus; Nitrogen; Waters; Waste-water treatment plant, Biological removal 238(1990)191

Flow system; Biosensor; Field effect transistor; Glucose; Urea; Penicillin; Cephalosporin C 238(1990)201

Thermom. analysis; Biosensor; Enzyme thermistor; Sugars; Glucose, Maltose, Sucrose, Fermentation 238(1990)211

Amperometry; Cyclic voltammetry; Pulp bleaching; Paper; Chlorine dioxide; In-line monitoring 238(1990)223

Tomatoes; Colour monitoring, Tristimulus colorimeters 238 (1990)231

Laser Doppler anemometry; Mixers; Jet mixing; Petroleum pipelines; Waters; Crude oil 238(1990)251

Flow system; Fluorimetry; Biosensors; Fermentation; Field-effect transistors; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

Flow system; Spectrophotometry; Bioprocess monitoring; Fermentation; Glucose ammonia proteins; Diode-array, Stopped-flow 249(1991)77

Spectrophotometry; Flow system; Acetate; Fermentation; Phosphate; *E. coli* 249(1991)101

Flow system; Turbidimetry; Bioprocess monitoring; Fermentation; Proteins; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Kinetic analysis; Film balance; Langmuir-Blodgett films; Proteins; Air/water interface, Multi-compartment trough,  $\beta$ -Lactoglobulin 249(1991)241

Fluorimetry; Bacterial cultures; Fermentation; Mathematical models; Physiological state; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

**Process control**

Flow system; H.p.l.c.; Antibiotics production; On-line 213 (1988)1

**Process control characteristics**

Clinical data validity; Model 211(1988)43

**Process industry**

Titrimetry; Voltammetry; Nitrating acids 206(1988)137

**Process monitoring**

Liquid chrom.; Flow system; Fermentation 249(1991)87

Flow system; Bioreactors; Fermentation; Membrane modules; Penicillin fermentation; Ammonium, Glucose 249(1991)123

Flow system; Immunoassay; Bioreactors; Enzyme-linked immunosorbent assay 249(1991)163

**Progesterone**

Chemiluminescence; Immunoassay; Whole saliva; Microtitre plate 227(1989)119

Flow system; Chemiluminescence; Steroids; Cortisone; Corticosterone; Hydrocortisone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

Polarography; Surfactants; Linear sweep, Cetyltrimethylammonium bromide 248(1991)103

**Promethazine**

Amperometry; Flow system; Voltammetry; Nafion-coated electrodes; Pharmaceuticals; Cations 249(1991)489

**Propoxyphene hydrochloride**

Pharmaceuticals; Spectropolarimetry; Enantiomeric purity 241(1990)115

**Propyl gallate**

Liquid chrom.; Time-domain differentiation; Computerized peak resolution; Butylhydroquinone; Antioxidants; Foods 234 (1990)263

**Propylammonium nitrate**

Chromatography; Sample preparation; Extraction solvents; Ethylammonium nitrate; Liquid-liquid extraction, Proton donors 236(1990)51

**Protease**

Flow system; Fluorimetry; Fluorescein-labelled albumin; Fluoromethylpyridinium salt 230(1990)131

**Protein dynamics**

Fluorimetry; Calmodulin; Förster energy transfer; Transferrin 205(1988)161

**Protein labelling**

Chemiluminescence; With acridinium ester 205(1988)267

**Protein metabolism**

Mass spectrometry; Sample preparation; Urine; Protein turnover; Cation-exchange resin, Urinary ammonium, Isotope ratio, Continuous flow, Conway microdiffusion 241(1990)255

**Protein synthesis**

Gas chromatography; Mass spectrometry; Amino acids 247 (1991)255

**Protein traces**

Fluorimetry; Terbium chelate label 218(1989)143

**Protein turnover**

Mass spectrometry; Sample preparation; Protein metabolism; Urine; Cation-exchange resin, Urinary ammonium, Isotope ratio, Continuous flow, Conway microdiffusion 241(1990)255

**Proteinase**

Electrophoresis; Enzyme activities; Trypsin; Papain; Chromogenic substrates, *N*-Benzoyl-DL-arginine *p*-nitroanilide 238(1990)331

**Proteins**

Titrimetry; Basicity; Lysine; Nonaqueous 202(1987)159

H.p.l.c.; Fluorimetry; Serum; Time-resolved laser 208(1988)255

Flow system; Potentiometry; Streaming potential; Affinity column 213(1988)79

Flow system; Spectrophotometry 217(1989)359

Flow system; Kinetic analysis; Liquid chrom.; Computer controlled apparatus; Enzyme reactions; Stopped-flow 220(1989)13

Coulometry; Spectrophotometry; Voltammetry; Bicinchoninic acid 221(1989)223

Fluorimetry; Radiometry; Aminosilane; Thermally pretreated glass 228(1990)107

Flow system; Immunoassay; Adenosine deaminase; Sandwich-type 229(1990)47

Flow system; Spectrophotometry; Biological membranes; Peptides; *o*-Phthaldialdehyde, Post-column reaction, Subcellular particles 231(1990)249

Spectrophotometry; Turbidimetry; Lignin; Wood 235(1990)299

Flow system; Sugars; Lactic acid; Biomass; Fermentation; Enzyme reactor; On-line 237(1990)165

Mass spectrometry; Structure determination; Computer program; Peptides; Antibiotics; MASSPEC, Graphics-based data system 237(1990)459

Potentiometry; Immunological field-effect transistor; Donnan potential, Charge 238(1990)323

Mass spectrometry; Serum albumin, Multiply charged proteins, Collisionally activated dissociation, Electrospray ionization 241(1990)167

Mass spectrometry; Biological samples; Glycoproteins; Oligonucleotides; Carbohydrates; Matrix-assisted UV/laser desorption/ionization 241(1990)175

Mass spectrometry; Plasma desorption, Liquid secondary ion 241(1990)315

Mass spectrometry; Molecular ion ejection mechanisms 247 (1991)265

Mass spectrometry; Peptides; Time-of-flight mass spectrometer; Matrix-assisted, Laser desorption, Pulsed nitrogen laser 248(1991)541

Flow system; Turbidimetry/nephelometry; Bioprocess monitoring; Fermentation; Process analysis; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113

Liquid chrom.; Electrophoresis; Haemoglobin; Isoelectric focusing; Peptides; Anion-exchange, Red blood cells 249(1991)169

Liquid chrom.; Glycoprotein variants; Hydrophobic interaction chromatography; Plasminogen activator 249(1991)201

Liquid chrom.; Gel perm. chromatogr.; Light scattering; Molecular size; Egg white, Hepatitis B surface antigen, Macromolecular interaction 249(1991)227

Kinetic analysis; Film balance; Langmuir-Blodgett films; Process analysis; Air/water interface, Multi-compartment trough,  $\beta$ -Lactoglobulin 249(1991)241

### **Prussian blue**

Potentiometry; Ion-selective electrodes; Potassium; Thin films, Membranes 239(1990)7

### ***Pseudomonas aeruginosa***

Conductimetry/oscillometry; Biological samples; Elastase; Enzyme activity; Tetraalanine substrate, Insoluble elastin substrate 247(1991)79

### ***Pseudomonas cepacia***

Polarography; Thermom. analysis; Aromatic compounds; Biosensors; Oxygen electrode; Calcium alginate gel, Metabolism 249(1991)17

### **PTFE tape separator**

Flow system; Electron-capture detection; PTFE tubing separator; Two-phase separation, Free chlorine 243(1991)131

### **PTFE tubing separator**

Flow system; Electron-capture detection; PTFE tape separator; Two-phase separation, Free chlorine 243(1991)131

### **Pullulan**

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

### **Pulp bleaching**

Amperometry; Cyclic voltammetry; Paper; Chlorine dioxide; Process analysis; In-line monitoring 238(1990)223

### **Pulsed reagent introduction**

Flow system; Spectrophotometry; Membrane reactor 215(1988)277

### **Purine bases**

H.p.l.c.; Caffeine; Octadecyl phases; Serum; High-density, Chemically bonded, Silica gels 208(1988)263

### **Purines**

H.p.l.c.; Voltammetry 202(1987)167

Phosphorimetry; Heavy-atom effects, Room-temperature 205(1988)273

Phosphorimetry; Room-temperature phosphorescence enhancement, Thallium(I), Sodium dodecyl sulphate, Filter-paper 236(1990)257

### **Pyrene**

Fluorimetry; Ternary cyclodextrin complexes 207(1988)251

Fluorimetry; Diethylaniline; Exciplex; Indole; Liposome 227(1989)267

### **Pyridostigmine**

Potentiometry; Plasma; Enzymatic 206(1988)57

Potentiometry; Enzyme reactor; Plasma; Calibration; Optimization 236(1990)431

### **Pyridoxal**

Flow system; Fluorimetry; Micellar-catalyzed reaction 201(1987)67

### **Pyridoxine hydrochloride**

Kinetic analysis; Potentiometry; Ascorbic acid; Biotin; *N*-bromosuccinimide; Thiamine hydrochloride 227(1989)405

### **Pyridylazophenols**

Liquid chrom.; Transition metal chelate; Ion-pair 223(1989)339

### **Pyridyldiphenyltriazine**

Spectrophotometry; Aluminium; Ethyl tetrabromophenolphthalein; Nickel ion; Steel 221(1989)109

### **Pyrimidinol**

Liquid chrom.; Gas chromatography; Mass spectrometry; Pesticides; Corn 236(1990)173

### **Pyrite**

Selenium; Sediments 235(1990)419

### **Pyrocatechol violet complex**

Spectrophotometry; Kinetic analysis; Micelle; Iron 226(1989)137

### **Pyrophosphate**

Flow system; Thermom. analysis; Enzyme Reactor; Thermistor 214(1988)409

### **Pyruvate**

Potentiometry; Glutamate oxaloacetate transaminase; Glutamate pyruvate transaminase; Pyruvate oxidase; Enzyme electrode 222(1989)83

Amperometry; Enzyme electrodes; Lactate; Cholesterol; Uric acid; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85

### **Pyruvate oxidase**

Potentiometry; Glutamate oxaloacetate transaminase; Glutamate pyruvate transaminase; Pyruvate; Enzyme electrode 222(1989)83

## **Q**

### **Quadrupole ion trap**

Mass spectrometry; Isomer distinction; Pentadienes 215(1988)223

### **Quality control**

Chemiluminescence; H.p.l.c.; Immunoassay; Steroid labels 205(1988)175

Digital simulation; Expert system 222(1989)19

Voltammetry; Benzodiazepine; Midazolam; Adsorptive stripping 229(1990)145

Titrimetry; Boron preservatives; Wood; Collaborative studies; Statistical analysis; Boric acid 236(1990)423

Bovine brain tissue; Gangliosides; DNA probes; Pharmaceuticals; Dot-blot hybridization 249(1991)291

#### **Quantitative analysis**

Uncertainty factor 223(1989)277

#### **Quantitative structure / activity relations**

Maximal common substructures, Superation trees 235(1990)239

#### **Quantitative structure / property relations**

Water pollution; Structure descriptor, P-vector 235(1990)93

#### **Quantitative structure / time / activity relations**

Kinetic analysis; Intracellular distribution, Bioactivity profiles 235(1990)195

#### **Quartz acoustic wave crystal**

Piezoelectric sensors; Acoustic wave sensors; Etched crystal, Aminopropyltriethoxysilane film 248(1991)143

#### **Quartz crystal**

Liquid chrom.; Piezoelectric sensors; Electrode-separated 248(1991)329

#### **Quartz crystal resonator**

Viscous liquids; Alcohols; Sugars; Piezoelectric sensor 231(1990)317

#### **Quaternary ammonium cation**

Spectrophotometry; Tetraiodopalladate; Liquid-liquid distribution 229(1990)121

#### **Quaternary ammonium salts**

Spectrophotometry; Extraction; Fabric conditioners; Hair conditioners; Tertiary alkylamines 219(1989)239

#### **Quenching**

Fluorimetry; Skatole; Pyridine 230(1990)213

#### **Quinidine**

Chemiluminescence; Quinine; Pharmaceuticals; Continuous-flow 236(1990)463

#### **Quinine**

H.p.l.c.; Caffeine; Morphine; Plant materials; Serum; Supercritical fluid extraction 213(1988)237

Chemiluminescence; Quinidine; Pharmaceuticals; Continuous-flow 236(1990)463

#### **Quinolin-8-ol-5-sulphonic acid**

Fluorimetry; Aluminium; Surfactant vesicles; Water, Dialysis fluid 234(1990)181

#### **Quinoline derivatives**

Titrimetry; I.r. spectrometry; N.m.r. spectrometry; Mass spectrometry; Oxidation by vanadium(V) 204(1988)77

#### **Quinolines**

N.m.r. spectrometry; Computer-assisted spectral simulation; Isoquinolines; Models, Library searches, Multiple linear regression 248(1991)183

#### **Quinololinol**

Chromium; Macroporous resin; Preconcentration; Sea water 224(1989)55

At. abs. spectrometry; Cellulose sorbent; Copper; Preconcentration 230(1990)163

Membrane filtration; Metal ion poly(ethyleneimine) 230(1990)171

Spectrophotometry; Cobalt; Multi-component analysis 230(1990)221

#### **Quinolizinium salts**

Fluorimetry; DNA 205(1988)105

Fluorimetry; Micellar media 205(1988)117

#### **Quinones**

Polarography; Naphthoquinones; Benzoquinones; Bioreductive quinones, Mitomycin, Aziridinylquinone, Antitumour agents 233(1990)251

Diff. pulse polarography; D.c. polarography; Voltammetry; Potentiometry; Controlled potential electrolysis; Aziridinylquinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

#### **Quinoproteins**

Kinetic analysis; Amperometry; Biosensors; Electron transfer; Methylamine dehydrogenase; Amicyanin, Cytochrome *c* 249(1991)235

## **R**

#### **Radiometric detection**

Flow system; Radiorelease; Vanadium; Radiosilver release 246(1991)329

#### **Radiometric detectors**

Flow system; Dispersion 246(1991)325

#### **Radiometry**

I.r. spectrometry; Surface electromagnetic wave spectrometry; Thin solid films, Optical properties, Quartz resonators 240(1990)219

#### **Radiorelease**

Flow system; Radiometric detection; Vanadium; Radiosilver release 246(1991)329

#### **Rain**

Titrimetry; Acidity; Substitution approach 217(1989)303

Anod. stripping voltammetry; Heavy metals; Seawater; Mercury microelectrodes, Differential-pulse 219(1989)19

**Rank annihilation**

Liquid chrom.; Calibration; Factor analysis; Kalman filter; Multi-wavelength detection 250(1991)37

**Rapid lifetime determination**

Error analysis 245(1991)121

**Rare earth elements**

H.p.l.c.; Emission spectrometry; Geological samples; Plasmas; Inductively-coupled 207(1988)149

Emission spectrometry; Liquid chrom.; Geological samples; Plasmas; Inductively-coupled, Oxalate coprecipitation, Cation-exchange 208(1988)163

Mass spectrometry; Waters; Isotope-dilution 218(1989)265

Ion exchange; Activ. analysis; Uranium 219(1989)313

Ion exchange; Brines; Preconcentration 220(1989)243

Spectrophotometry; Multicomponent analysis; Simplex method 222(1989)323

Flow system; Organized media; Micellar media; Insoluble systems; Thorium; Uranium; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

Spectrophotometry; Chromogenic reagents; Ill-conditioned system calibration; Calibration 234(1990)483

Activ. analysis; Mass spectrometry; Emission spectrometry; Rocks; Plasma; Isotope dilution, Inductively coupled 236(1990)487

Liquid chrom.; Thorium; Chromium; Ores; Ion pairing, Complexes, Precolumn derivatization 237(1990)311

Liquid chrom.; Steels; Transition elements; Low-alloy, Post-column reaction detection, 4-(2-pyridylazo)resorcinol, Arsenazo-III 237(1990)325

Activ. analysis; Biological samples; Preconcentration; Substoichiometric precipitation, Calcium oxalate 239(1990)115

X-ray fluores. spectrometry; Preconcentration; Quinolin-8-ol complexes, Activated carbon 242(1991)215

Fluorimetry; Europium; Samarium; Fluorescence enhancement, Gadolinium, Dibenzoylmethane-diethylamine 245(1991)109

**Rare earth minerals**

Fluorimetry; Europium; Minerals; Gadolinium fluorescence enhancer 247(1991)37

**Rare earth oxides**

Fluorimetry; Diphacinnone; Europium; Yttrium; Fluorescence enhancement, Ammonia 231(1990)295

**Rare earths**

Diff. pulse voltammetry; Europium; Ytterbium; Mercury thin-film electrodes; Nafion coating; Ion-exchange preconcentration 244(1991)29

**Rat brains**

Flow system; Fluorimetry; Intracerebral dialysis; Lactic acid; Enzymatic 205(1988)53

**Rat tissues**

H.p.l.c.; Fluorimetry; Disulphides; Thiols; Pre-column derivatization 205(1988)29

**Rate constant**

Spectrophotometry; Physicochemical experiment 221(1989)319

Ion exchange; Metal ion; Chelex 222(1989)279

**Reaction liquid**

Mass spectrometry; Sampling system 229(1990)9

**Reactor moderator water**

Diff. pulse voltammetry; Copper; Gold; Silver; Mercury; Waters 249(1991)447

**Receptor-based biosensors**

Potentiometry; Antibody-based biosensors; Biosensors; Immunoglobulins; Serum 249(1991)67

**Recombinant DNA**

Chemiluminescence; Toxic compounds; Environmental pollutants; *Escherichia coli* bioluminescence, Sodium azide, Chloramphenicol 244(1991)201

Liquid chrom.; Enzyme purification; Phosphocellulose 249(1991)195

**Recombinant DNA technology**

Electrophoresis; Peptides; Capillary zone 213(1988)215

**Recombinant human epidermal growth factor**

Liquid chrom.; Mass spectrometry; Reversed-phase, Fast atom bombardment 239(1990)301

**Recombinant protein**

Mass spectrometry; Liquid chrom.; Interferon; Fast atom bombardment 223(1989)361

**Redox gas**

Flow system; Amperometry; Electrocatalysis; Chemically modified electrode 224(1989)305

**Redox species**

Cyclic voltammetry; Glassy carbon electrodes; Electrochemical oxidation 243(1991)43

**Reducing carbohydrates**

Fluorimetry 217(1989)263

**Reducing sugars**

Potentiometry; Dinitrophenolate electrode; Honey 218(1989)37

**Reduction mechanism**

Polarography; Dropping mercury electrode; Cobalt-ammonia complexes; Stability constants 231(1990)143

Polarography; Cobalt; Malonate complexes, Succinate complexes 248(1991)409

**Reduction of information space**

I.r. spectrometry; Fast Fourier, Fast Hadamard 210(1988)63

**Reductive coprecipitation**

At. abs. spectrometry; Gold; Palladium; Platinum; Rhodium; Silver; Selenium; Tellurium; Geological samples; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

**Reference materials**

Neutron activation; Sediment 223(1989)287



Spectrophotometry; Nitrate; Phosphate; Sea water; Autoclaving 248(1991)277

#### Reference phase

Gas chromatography; Apolane-87; Squalane 225(1989)193

#### Reflection-absorption

I.r. spectrometry; Polarization; Grazing incidence; Organic thin films, Enhancement 240(1991)305

#### Refractive index gradient detection

Flow system; Molecular weight sensing; Polyethylene glycol 246(1991)241

#### Regression algorithms

Kalman filter; Robust, Least-median, Linear calibration, Least-squares 215(1988)131

#### Regression evaluation of parameters

Information content of data; Algorithms, Weighting 237(1990)473

#### Reliability criterion

Flow system; Orthophosphate; Method development evaluation 207(1988)111

#### Replacement-ion chromatography

H.p.l.c.; Emission spectrometry; Microwave-induced nitrogen discharge 215(1988)99

#### Reserpine

Flow system; Kinetic analysis; Spectrophotometry; Catalysts; Manganese; Continuous-flow analysis, Manganese oxide reactor 233(1990)235

Fluorimetry; Flow system; Photochemical derivatization; Pharmaceutical formulations 245(1991)101

#### Residual chlorine

Flow system; Amperometry 207(1988)59

#### Resin extraction

Chromatography; Sample preparation; Steam distillation; Organic compounds, Aqueous samples 236(1990)43

#### Resole prepolymer mixtures

H.p.l.c.; Kalman filter 202(1987)187

Amperometry; Cyclic voltammetry; Electropolymerization; Glassy carbon electrodes; Polymer-coated electrodes; Continuous-flow sensing 249(1991)395

#### Resolution

H.p.l.c.; Kalman filter 201(1987)185

Chromatography; Statistical functions for overlapping peaks 201(1987)193

#### Resolution enhancement

I.r. spectrometry; Sample perturbation; Information content 250(1991)131

#### Resolution of binary mixtures

Kinetic analysis; Spectrophotometry; Cobalt; Nickel; Interpolation 212(1988)223

#### Resolution of overlapping peaks

Gas chromatography; H.p.l.c.; Mass spectrometry; Statistical and empirical functions 219(1989)257

#### Response surface mapping

Flow system; Pattern recognition; Automated optimization; Simplex optimization 237(1990)361

#### Restriction endonucleases

Electrophoresis; Enteropathogenic bacteria 213(1988)273

#### Retention behaviour

Ion exchange; Dowex; Polyurethane foam; Hydrochloric acid-potassium thiocyanate 229(1990)127

#### Retention indices

Gas chromatography; H.p.l.c.; Isoalkanes; General model 201(1987)217

#### Retention mechanism

Liquid chrom.; Alumina columns; Solvent strength; Selectivity; Polybutadiene-coated 246(1991)113

#### Retention ratio

Field-flow fractionation; Crossflow hydrodynamics; Reynolds number, Analyte transport 246(1991)161

#### Retinal complex

Fluorimetry; Cyclodextrin; Room temperature 227(1989)297

#### Reverse osmosis

Phosphorus; Fresh water 244(1991)269

#### Reversed matrix representation

Spectrophotometry; Niobium; Tantalum; Multicomponent mixtures 212(1988)145

#### Reversed-phase retention

H.p.l.c.; Characterization of stationary/mobile phases; Using markers 212(1988)95

#### Review

Titrimetry; Kinetic analysis; Catalytic end-point detection 202(1987)1

Ring oven 202(1987)25

Potentiometry; Ion-selective electrodes 206(1988)1

Potentiometry; Titrimetry; Equivalence volumes 206(1988)111

Voltammetry; Glassy carbon electrodes; Surface preparation 207(1988)1

Fluorimetry; Micelles; Reversed 208(1988)1

Artificial intelligence 210(1988)9

Potentiometry; Biosensors; Enzyme electrodes; Electronic, Opto-electronic 213(1988)23

Amperometry; Potentiometry; Fermentation processes; Microbiological sensors 213(1988)69

Flow system; Heterogeneous sample materials; Immobilized reagents 214(1988)1

Flow system; Extraction 214(1988)29

Flow system; At. abs. spectrometry; Emission spectrometry 214(1988)57

Mass spectrometry; Plasmas; Plasma source 216(1989)1

Mass spectrometry; Electron probe analysis; Ion-microprobe; Three-dimensional analysis; Secondary-ion 216(1989)25

Kinetic analysis 216(1989)69

H.p.l.c.; Gas chromatography; T.l.c.; Supercritical-fluid 216(1989)109

Voltammetry; Steady-state 216(1989)177

Flow system; Spectrophotometry; Enzymatic assays 216(1989)257

Flow system; Multiple peak recordings 216(1989)275

Flow system; Spectrophotometry; Amperometry; Unstable reagents 216(1989)289

Electron probe analysis; Microanalysis 218(1989)185

Ion-selective electrodes; Body fluids 233(1990)1

Flow system; Liquid chrom.; At. abs. spectrometry; Detectors 234(1989)3

Gas chromatography; Waters; Trace organic compounds; Pre-concentration; Liquid-liquid extraction, Solid sorbents, Headspace techniques, Gas extraction, Volatile compounds 237(1990)1

I.r. spectrometry; Automated spectral interpretation; Structure determination; Computer-assisted interpretation of spectra; Knowledge-based system; Library search, Pattern recognition 240(1990)3

Flow system; Kinetic analysis; Spectrophotometry; Fluorimetry; Stopped-flow technique 242(1991)147

Neural networks; Chemical applications 248(1991)1

Enzyme electrodes; Biosensors; Organic phase 249(1991)1

### **Rhamnose derivatives**

I.r. spectrometry; Hydrogen bonding 240(1991)311

### **Rhenium**

Spectrophotometry; Catalysts; Extraction; Microcrystalline benzophenone 204(1988)359

Ion exchange; Isotope dilut. analysis; Meteorite; Osmium; Resonance ionization mass spectrometry 222(1989)291

Flow system; Spectrophotometry; Extraction; Crown ethers; Potassium perchlorate, Brilliant Green 232(1990)287

I.r. spectrometry; Alumina; Fourier transform; Photo-induced interaction; Hydroxylated alumina surface 240(1990)211

I.r. spectrometry; Fourier transform; Alumina; Hydroxylated alumina surface 240(1990)215

### **Rhodamine B**

Spectrophotometry; Dinitrocatechol; Flotation separation; Niobium; Oxalate 226(1989)281

### **Rhodium**

At. abs. spectrometry; Gold; Palladium; Platinum; Silver; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

At. abs. spectrometry; Iridium; Ruthenium; Platinum; Matrix extraction, Graphite furnace 236(1990)385

Extraction; Iridium; 4-(Non-5-yl)pyridine 242(1991)191

Iridium; Chelating resin; Poly(vinylideneethylenetriamine) 245(1991)13

At. abs. spectrometry; Fire assay; Geological materials; Palladium; Platinum; Rocks; Nickel sulphide 246(1991)365

### **Riboflavin**

Kinetic analysis; Spectrophotometry; Competitive binding; Urine; Homogeneous enzyme-linked 208(1988)31

### **Ribomononucleotides (isomeric)**

Mass spectrometry; Fast atom bombardment 247(1991)187

### **Rice flour**

H.p.l.c.; Chemiluminescence; Cobalt 217(1989)157

### **River water**

Flow system; Spectrophotometry; Field monitor; Nitrate 227(1989)379

Colloid; Copper; Iron 227(1989)421

Multivariate correlation analysis; Trace metals; Atmospheric sampling 242(1991)5

### **Robot system**

H.p.l.c.; Kalman filter; Solid dosage formulations; One-dimensional 209(1988)45

### **Robots**

Process analysis; Automation; Biological oxygen demand; Yoghurt; Acidity 238(1990)71

### **Rocks**

Electrotherm. atomization; At. abs. spectrometry; Extraction; Palladium; Platinum; Soils; Iodo complexes 204(1988)333

Spectrophotometry; Germanium; Adsorption on Sephadex 209(1988)333

Flow system; Ion exchange; Molybdenum; Natural water 225(1989)313

Extraction; Boron; Isotopic ratios; Alkali fusion, Methyl borate distillation, Isotope dilution 231(1990)147

Mass spectrometry; Calcium; Accelerator; Bone; Sample preparation 233(1990)101

Mass spectrometry; Plasma; Laser ablation; Minerals; Geological materials; Inductively coupled 235(1990)381

Activ. analysis; Mass spectrometry; Emission spectrometry; Rare earth elements; Plasma; Isotope dilution, Inductively coupled 236(1990)487

Spectrophotometry; Minerals; Phosphorus; Decomposition, Room temperature 237(1990)251

At. abs. spectrometry; Tin; Graphite furnace, Silicate 239(1990)145

Spectrophotometry; At. abs. spectrometry; Geological samples; Microwave acid digestion 245(1991)43

At. abs. spectrometry; Fire assay; Geological materials; Palladium; Rhodium; Platinum; Nickel sulphide 246(1991)365

### **Rodenticide**

Phosphorimetry; Blood serum; Warfarin; Room-temperature phosphorescence 222(1989)177

**Rubidium**

Isotope dilut. analysis; Mass spectrometry; Emission spectrometry; Geological material 229(1990)157

**Ruggedness test**

Liquid chrom.; Expert system; Pharmaceutical sample 228(1990)145

**Rule-based formulation**

Chemical recipes 206(1988)223

**Rumen bacteria**

Pattern recognition; Animal feeds; Fodder plants; Enzymatically changed, Genetic varieties 213(1988)177

**Ruthenium**

Emission spectrometry; Plasmas; Enhancement by periodic acid, Inductively coupled 218(1989)77

At. abs. spectrometry; Meteorites; Graphite furnace 232(1990)317

At. abs. spectrometry; Iridium; Rhodium; Platinum; Matrix extraction, Graphite furnace 236(1990)385

# S

**Salicylaldehyde carbohydrazone**

Fluorimetry; Thorium 224(1989)153

**Salicylate**

Fluorimetry; Plasma 201(1987)335

Principal components; Spectrophotometry; Titrimetry; Copper; Ethanolamine 223(1989)257

Amperometry; Biosensor; Whole blood 224(1989)39

**Salicylic acid**

Spectrophotometry; Savitzky-Golay smoothing; Second-derivative 201(1987)301

**Salinity**

Flow system; Plasma; Matrix matching; Waters; Inductively coupled, Sodium 234(1990)207

**Saliva**

Chemiluminescence; Immunoassay; Estriol 205(1988)215

Immunoassay; Testosterone 207(1988)161

Polarography; Thiocyanate; Linear-sweep 212(1988)43

Amperometry; Enzyme electrodes; Lactate; Lactate oxidase, Hydrogen peroxide 245(1991)151

Immunoassay; Osmotic pump; Testosterone; In situ collection device 248(1991)517

**Salt concentrations**

Fluorimetry; Fibre-optic sensor; Polymer swelling; Optical displacement, Sulphonated dextran, Sulphonated polystyrene 249(1991)373

**Samarium**

Fluorimetry; Europium; Laser-excited, Time-resolved, Labelling of biomolecules 219(1989)67

Fluorimetry; Terbium; Europium; Hexafluoroacetylacetone-triethylphosphine oxide-Triton X-100 231(1990)157

Fluorimetry; Europium; Rare earth elements; Fluorescence enhancement, Gadolinium, Dibenzoylmethane-diethylamine 245(1991)109

**Sample introduction**

Flow system; Mass spectrometry; Arsenic; Chloroform 214(1988)385

Flow system; Phosphorimetry; Continuous, Solid-surface room-temperature 231(1990)289

Flow system; Variable-volume injector; Calibration 234(1990)253

Flow system; Solid samples; Ultrasonic irradiation; Iron; Plant materials; Direct introduction, Leaching 242(1991)283

Flow system; Fluorimetry; Spectrophotometry; Raman spectrometry; I.r. spectrometry; Mass spectrometry; Molecular spectroscopic detection 250(1991)157

**Sample perturbation**

I.r. spectrometry; Resolution enhancement; Information content 250(1991)131

**Sample preparation**

Chromatography 236(1990)3

Chromatography; Steam distillation; Resin extraction; Organic compounds, Aqueous samples 236(1990)43

Chromatography; Extraction solvents; Ethylammonium nitrate; Propylammonium nitrate; Liquid-liquid extraction, Proton donors 236(1990)51

Chromatography; Pesticides; Foods; High fat 236(1990)77

Chromatography; T.l.c.; Planar chromatography 236(1990)83

Chromatography; Pharmaceuticals; Pesticides; Biological samples; Serum; Blood; Extraction 236(1990)99

Liquid chrom.; Solid-phase extraction; Ecdysteroids; Insects; Hormones, Sep-Pak cartridge, Phenylboronic acid 236(1990)145

Gas chromatography; Insects; Pheromones; Capillaries, Micro-reactor 236(1990)227

Mass spectrometry; Protein metabolism; Urine; Protein turnover; Cation-exchange resin, Urinary ammonium, Isotope ratio, Continuous flow, Conway microdiffusion 241(1990)255

**Sampling**

On-line analysis; Difficult to handle materials, Non-Newtonian suspensions, Pastes, Cohesive solids, Radioactive materials, Toxic materials 238(1990)11

**Sampling procedures**

Air; Extraction; Organic volatiles; Pollution 236(1990)197

**Sampling system**

Mass spectrometry; Reaction liquid 229(1990)9

Biosensors; Fermentation; Coaxial catheter, Sterile monitoring, Glucose, Lactate, Blood 249(1991)61

**Sausage**

Polarography; Nitrite; Water; Single-sweep 230(1990)105

**Savitzky-Golay filter**

Spectrophotometry; Fourier-transform filter; Polynomial filter 222(1989)335

Data smoothing; Weighting functions 249(1991)331

**Savitzky-Golay smoothing**

Spectrophotometry; Salicylic acid; Second-derivative 201(1987)301

**Scanning electron microscopy**

Graphite electrodes; Pyrolytic graphite, Glassy carbon, Activity 231(1990)191

Mass spectrometry; X-ray fluores. spectrometry; Glassy carbon electrodes; Surface analysis; Electrochemical modification, Solid-state characterization 248(1991)127

**Schiff bases**

Chemiluminescence; Flow system; Amines; Amino acids; Fenton's reagent; Phenylacetaldehyde, Sodium bis(2-ethylhexyl) sulphosuccinate reversed micellar solution 247(1991)27

Potentiometry; Titrimetry; Hydrogen bonding; Half-neutralization potentials, Perchloric acid titration 249(1991)427

**Schlieren effect**

Flow system; Spectrophotometry; Diode-array, Dual-wavelength 234(1990)153

**Screening procedures**

Enzyme systems; Glucose oxidase; Monoclonal antibodies; ELISA 241(1990)105

**Sea water**

Voltammetry; Extraction; Selenium; Differential-pulse cathodic stripping 201(1987)33

Flow system; Spectrophotometry; Hydrogen peroxide; Reagent-injection 201(1987)83

Potentiometry; Flow system; Arsenic; Constant-current stripping, Gold fibre electrodes 201(1987)263

Anod. stripping voltammetry; Bismuth; Square-wave, Glassy-carbon rotating-disk electrode 204(1988)161

Potentiometry; Flow system; Arsenic; Urine; Constant-current stripping 207(1988)37

Electrotherm. atomization; At. abs. spectrometry; Tetrahydroborate reductive precipitation; Trace elements; Preconcentration 207(1988)291

Electrotherm. atomization; At. abs. spectrometry; Copper; Zinc; Polymer-supported 1,4,8,11-tetraazacyclotetradecane 209(1988)249

Voltammetry; Platinum; Cathodic stripping 211(1988)129

Ion exchange; Electrotherm. atomization; At. abs. spectrometry; Heavy metals; Pre-concentration, Chelex-100, pH and salts 211(1988)257

Ion exchange; Electrotherm. atomization; At. abs. spectrometry; Heavy metals; Pre-concentration, Chelex-100, Optimization, Plate simulation method 211(1988)271

Voltammetry; Nitrite; Waters; Cathodic stripping 212(1988)31

Polarography; Ion exchange; Molybdenum; Tungsten; Waters; Catalytic current, Preconcentration 218(1989)25

Anod. stripping voltammetry; Heavy metals; Rain; Mercury microelectrodes, Differential-pulse 219(1989)19

Voltammetry; Adsorptive collection; Titanium; Cathodic stripping voltammetry 221(1989)269

Voltammetry; Adsorptive collection; Tin; Cathodic stripping voltammetry 222(1989)43

Emission spectrometry; Barium; Inductively coupled plasma 222(1989)55

At. abs. spectrometry; Mercury; Preconcentration; Platinum-lined graphite furnace 225(1989)175

Voltammetry; Cathodic stripping; Selenium; Waters; Copper 231(1990)221

Chemiluminescence; Formic acid; Waters; Enzyme bioluminescence reaction 231(1990)299

Voltammetry; Waters; Copper; Complexation, Organic ligands, Speciation, Detection window 232(1990)149

Liquid chrom.; Waters; Copper; Phytoplankton bloom; Plankton ecosystem; Metal-organic interactions 232(1990)161

Mass spectrometry; Waters; Barium; Plasma; Isotope dilution; Inductively coupled 232(1990)323

At. abs. spectrometry; Waters; Manganese; Preconcentration; Polyazamacrocycles; Graphite furnace, Immobilized, Poly-(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331

Waters; pH; Dye fibre-optic pH sensor; Phenol red, Amberlite resin 232(1990)337

Spectrophotometry; Waters; Nitrite; Azo dyes; Formation kinetics, *N*-1-Naphthylethylenediamine, Sulphanilamide 232(1990)345

Gas chromatography; Methylmercury; Waters; Plasma; Microwave-induced plasma detection, Headspace, Dithiocarbamate resin preconcentration, Speciation 234(1990)417

Voltammetry; Trace elements; Waters; Lake water; In situ measurements, Copper, Lead, Cadmium, Zinc 237(1990)429

Fluorimetry; Waters; Polycyclic aromatic hydrocarbons; Pulsed-laser, fibre-optic-based system, Decay times, Time-resolved 239(1990)45

Flow system; Chemiluminescence; Surfactants; Waters; Nonidet AT 85, Rhodamine B sensitizer 239(1990)189

Liquid chrom.; Nitrite; Nitrate; Waters; Venice lagoon, Ion interaction reversed-phase 239(1990)203

At. abs. spectrometry; Waters; Extraction; Separating funnels; Fluorinated ethylene-propylene, Dithiocarbamate-Freon-TF-extraction 245(1991)21

Mass spectrometry; Plasmas; Isotope dilution; Uranium; Waters; Marine sediment pore waters 245(1991)83

Voltammetry; Titanium; Cathodic stripping, Chlorate catalysis 245(1991)167

Voltammetry; Copper; Ethylenediamine; Rotating mercury film electrode 245(1991)177

Spectrophotometry; Iron; Waters; Ferrozine, Sep-Pak cartridge 247(1991)125

Flow system; Emission spectrom.; Plasmas; Preconcentration; Trace metals; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241

Spectrophotometry; Nitrate; Phosphate; Reference materials; Autoclaving 248(1991)277

Chemiluminescence; Flow system; Manganese; Waters;  $\delta$ -Hydroxyquinoline concentration, 7,7,8,8-Tetracyanoquinodimethane 249(1991)469

Gas chromatography; Helium-3; Sulphur hexafluoride; Tracers; Waters; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

Voltammetry; Trace elements; Waters; Adsorptive deposition, Cathodic stripping 250(1991)265

### **Sediment suspensions**

Gas chromatography; Potentiometry; Voltammetry; Microbial reaction rates; Apparatus 213(1988)221

### **Sediments**

Emission spectrometry; Computer-controlled rapid-scanning echelle monochromator; Plasmas; Soils; Trace elements; Inductively-coupled 207(1988)269

At. abs. spectrometry; Trace metals; Nitric acid digestion 218(1989)335

Potentiometry; Nitrate-selective microelectrodes 219(1989)351

Emission spectrometry; Mass spectrometry; Mercury; Natural waters; Inductively coupled plasma/mass spectrometry, Sodium boro-hydride 221(1989)77

Neutron activation; Reference material 223(1989)287

N.m.r. spectrometry; Humic acids; Soils; Philippines 232(1990)31

Selenium; Pyrite 235(1990)419

### **Segmental flow injection**

Flow system; Spectrophotometry; Amino acids, Tea, Ammonia, Waters, Copper, Vanadium 238(1990)183

### **Segmenter**

Flow system; Copper; Extraction; Continuous flow, Dual channel 245(1991)251

### **Selectivity**

Liquid chrom.; Alumina columns; Solvent strength; Retention mechanism; Polybutadiene-coated 246(1991)113

### **Selectivity coefficient**

Ion exchange; Chromatography; Streaming potential 228(1990)61

### **Selectivity optimization**

Liquid chrom.; pH; Octadecyl-modified silica, Reversed-phase 250(1991)1

### **Selenium**

Diff. pulse voltammetry; Oyster Tissue; 3,3'-Diaminobenzidine piaseelenol 201(1987)23

Voltammetry; Extraction; Sea-water; Differential-pulse cathodic stripping 201(1987)33

Hydride generation; At. abs. spectrometry; Biological materials 201(1987)331

Fluorimetry; Sulphur sample 206(1988)345

Voltammetry; Cathodic stripping, Adsorptive stripping 208(1988)231

Voltammetry; Cathodic stripping; Sea water; Waters; Copper 231(1990)221

At. abs. spectrometry; Gold; Palladium; Platinum; Rhodium; Silver; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

Spectrophotometry; Catalysis; Resazurin reduction, Sulphide 232(1990)351

At. abs. spectrometry; Hydride generation; pH; Selenium hydride stripping; Acid dissociation 232(1990)405

Pyrite; Sediments 235(1990)419

At. abs. spectrometry; Hydride generation; Antimony; Arsenic; Sodium tetrahydroborate 237(1990)189

At. abs. spectrometry; Coal fly ashes; Graphite furnace, Cadmium-palladium chemical modifier 247(1991)19

### **Selenium hydride stripping**

At. abs. spectrometry; Hydride generation; pH; Selenium; Acid dissociation 232(1990)405

### **Self-modeling curve resolution**

Kinetic analysis; Flow system; Spectrophotometry 218(1989)303

### **Semiconductor gas sensors**

Conductometry; Pattern recognition; Odour-sensing system 215(1988)155

Conductometry; Gas chromatography; Alkanes; Hydrogen; Simplex optimization 216(1989)147

Conductometry; Acetic acid; Acetone; Computerised array; Ethanol 219(1989)213

Taguchi gas sensors; Tin oxide gas sensors; Test rig 249(1991)413

### **Semiconductor laser**

Fluorimetry; Xanthine; Xanthine oxidase; Near-infrared 208(1988)325

Spectrophotometry; Thermal lens; Iron; 2-Nitroso-5-diethylaminophenol 243(1991)109

### **Semiconductor silicon**

At. abs. spectrometry; Electrotherm. atomization; Antimony; Solid samples 201(1987)311

### **Semiconductors**

Potentiometry; Control chart; Gas-sensor 225(1989)89

Gas chromatography; Ethylene; Fruits; Field effect transistor 231(1990)93

Mass spectrometry; Fourier transform ion cyclotron resonance, Chemical vapour deposition reagents 237(1990)83

Potentiometry; Titrimetry; Gallium arsenide; Stoichiometry; Arsenic 244(1991)247



Immunoassay; Potentiometry; Biosensors; Capacitance; Enterotoxin B; Toxins; Antibody fixation, Grafted immunospecies 249(1991)367

### Sensor

Fluorimetry; Reflectance spectrometry; Fibre optic; In situ; Poly(vinyl chloride); Trinitrotoluene 221(1989)1

Chemiluminescence; Cetyltrimethylammonium bromide; Glucose oxidase; Hydrogen peroxide; Luminol; Micelle 221(1989)11

Amperometry; Ion exchange; Voltammetry; Nafion; Low-conductivity solvent 221(1989)27

Amperometry; Hydroxybutyrate; Ketone body; Dry-strip 221(1989)289

Spectrophotometry; Hydrogen cyanide; Impregnated bead detector 222(1989)63

Potentiometry; Penicillin; Penicillin amidase; Field effect transistor 226(1989)87

Spectrophotometry; Copper complex; Optical waveguide; Sulphur dioxide 226(1989)153

Potentiometry; Textile material; Microelectrode 226(1989)247

Chemiluminescence; Flow system; Fibre-optic; NADH; Bioluminescence 226(1989)331

Amperometry; Glycolate; Glycolate oxidase; Mediator 228(1990)31

Amperometry; Acetylcholine; Acetylcholinesterase; Choline; Choline oxidase; Photocross-linkable polymer 228(1990)49

Amperometry; Flow system; Conducting organic salt; Glucose; Wall-jet cell 229(1990)83

Immunoassay; Fluorimetry; Immobilization, Fibre optic 229(1990)169

Potentiometry; Bacteria; Immobilization; Lysine; Lysine decarboxylase; Calcium alginate 229(1990)197

Spectrophotometry; Titrimetry; Fibre optic; pH; Acid-base 230(1990)35

Potentiometry; Poly(hydroxyethyl methacrylate); Silylation; Semiconductor, Ion-sensitive field effect transistor 230(1990)59

### Sensor-actuator

Coulometry; Field effect transistor 229(1990)71

### Separating funnels

At. abs. spectrometry; Waters; Sea water; Extraction; Fluorinated ethylene-propylene, Dithiocarbamate-Freon-TF-extraction 245(1991)21

### Separation

Metal ion; Polythioether; Tetrathioether 221(1989)99

### Sequential injection

Flow system; Process analysis; Sinusoidal flow 237(1990)329

### Serum

Voltammetry; Chlordiazepoxide; Adsorptive stripping, Hanging mercury drop electrode 201(1987)275

Voltammetry; H.p.l.c.; Dacarbazine 202(1987)141

Certification of reference material; Trace elements; Freeze-dried human 204(1988)63

Flow system; Pharmaceuticals; Sulphonamides; Urine 204(1988)271

Flow system; Fluorimetry; Amino acids; Bioluminescence; Enzyme reactor; Urine; Branched-chain 205(1988)229

H.p.l.c.; Chemiluminescence; Estradiol; Normal-phase 205(1988)255

H.p.l.c.; Amperometry; Fluorouracil; Pharmaceuticals; Anodic 207(1988)183

Flow system; Amperometry; Cholesterol; Enzyme reactor 207(1988)319

H.p.l.c.; Fluorimetry; Proteins; Time-resolved laser 208(1988)255

H.p.l.c.; Caffeine; Octadecyl phases; Purine bases; High-density, Chemically bonded, Silica gels 208(1988)263

Fluorimetry; Calcium 209(1988)303

Conductometry; Enzyme-catalyzed reactions; Urea 211(1988)205

Activ. analysis; Ion exchange; Trace metals 211(1988)231

H.p.l.c.; Thiopurine compounds; Micelles as mobile phase 212(1988)181

H.p.l.c.; Caffeine; Morphine; Plant materials; Quinine; Supercritical fluid extraction 213(1988)237

Flow system; Reflectance spectrometry; Creatinine; Gas diffusion 214(1988)147

Potentiometry; Choline-sensitive membrane electrode; Phosphatidylcholine 217(1989)193

Kinetic analysis; Flow system; Lactate dehydrogenase; Multi-detection, Cyclic system 219(1989)191

Chemiluminescence; Flow system; Hollow-fibre reactor; Hydroxy bile acid; Bioluminescence 225(1989)273

Immunoassay; Amperometry; Insulin; Enzyme immunoelectrode 225(1989)283

Kinetic analysis; Spectrophotometry; Biacetyl; Urea 230(1990)145

Potentiometry; Potassium; Blood; Ion-selective electrodes; Silicon rubber tubular electrode, Valinomycin-treated 231(1990)125

Fluorimetry; Gas sensor; Ammonia; Fibre-optic sensor; Fluoresceins 231(1990)231

Potentiometry; Calcium; Iminodiacetate complexation 233(1990)269

A.c. polarography; Methotrexate; Phase-selective 233(1990)281

Ion-selective electrodes; Ion-sensitive field effect transistor; Fibre-optic sensor; Ionophores; Sodium; Blood; Lipophilic, 1,2-Phenylenedioxydiacetamides 233(1990)295

Flow system; Voltammetry; Magnesium; Rapid scan square-wave, Thin-film deaerator, Dropping mercury electrode 234(1990)161

Chromatography; Sample preparation; Pharmaceuticals; Pesticides; Biological samples; Blood; Extraction 236(1990)99

Gas chromatography; Liquid chrom.; Organic acids; Biological fluids; Urine; Extraction 236(1990)121

Diff. pulse polarography; Amino acids; Foods; Schiff's base, Borax buffer, Acetaldehyde 236(1990)307

Potentiometry; Ion-selective electrodes; Magnesium; Automated, Ionized 236(1990)331

Spectrophotometry; Flow system; Chemiluminescence; Enzyme reaction; Glucose; Mimetic peroxidase, Hydrogen peroxide, Luminol 237(1990)497

Spectrophotometry; Flow system; Urea; Enzyme reactor; Gas diffusion, Urease 237(1990)503

Flow system; Spectrophotometry; Enzyme reactor; Lactic acid; Glucose; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411

Spectrophotometry; Continuous addition of reagent technique; Differential reaction-rate methods; Copper; Iron; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

Flow system; Fluorimetry; Alanine; Enzyme reactor; Beverages; Immobilized poly(vinyl alcohol) beads 239(1990)307

Mass spectrometry; Plasmas; Lithium; Biological samples; Foods; Inductively coupled, Standard Reference Materials 244(1991)259

Amperometry; Enzyme electrodes; Aspartate aminotransferase; Alanine aminotransferase; Glutamate oxidase, Hydrogen peroxide 245(1991)57

Flow system; Voltammetry; Ion-sensitive field-effect transistors; Potassium; Urine; Wall-jet cell, Silicone-rubber membrane 245(1991)159

Potentiometry; Antibody-based biosensors; Biosensors; Immunoglobulins; Receptor-based biosensors 249(1991)67

Liquid chrom.; Antibodies; Human growth hormone; Protein G affinity, Reversed phase, Antigen-antibody complexes 249(1991)185

Potentiometry; Ammonia membrane electrode; Biosensor; Enzyme electrodes; Urea; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

Fluorimetry; Flow system; Liquid chrom.; Bile acids; Enzyme reactor; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461

### **Sewage sludge**

At. abs. spectrometry; Flow system; Microwave oven digestion; Solid samples; Flame, Manifold, Slurries 238(1990)417

### **Shampoo**

Liquid chrom.; Climbazol; Cosmetics; Preservative 235(1990)465

### **Shpol'skii technique**

Fluorimetry; Polynuclear aromatic hydrocarbons; Mussels; Terns; Biological samples 232(1990)245

Fluorimetry; Polynuclear aromatic hydrocarbons; Computerized data acquisition and processing 233(1990)207

### **Signal analysis**

Emission spectrometry; Noise; Inductively coupled plasma, Microlitre sample 226(1989)53

Emission spectrometry; Calibration; Inductively coupled plasma, Microlitre sample 226(1989)73

### **Signal averaging**

Spectrophotometry; Algorithm, recursive; Standard deviation 242(1991)17

### **Signal processing**

Flow system; Spectrophotometry; Computer simulation; Error analysis; Iron(II)-*o*-phenanthroline, Azo dye 235(1990)337

Flow system; Auto-by-cross correlation; Photoionization spectroscopy; Transient signals; Transient photocurrent, Laser-excited photoionization 248(1991)195

### **Signal suppression**

Mass spectrometry; Plasmas; Trace metals; Inductively-coupled, Internal standard 211(1988)91

### **Signal/noise enhancement**

Chromatography; Chromatography; Matched filtering; Theory 235(1990)343

Chromatography; Chromatography; Matched filtering; Program and simulation 235(1990)355

### **Silica**

Gravimetry; Lead-bearing samples; Errors 219(1989)177

Fluorimetry; Uranium; Time-resolved laser 219(1989)181

I.r. spectrometry; Polystyrene; Simulated spectra; Dielectric function 240(1990)187

I.r. spectrometry; Diffuse reflectance; Inorganic powders; Silicon carbide; Blocker device, Simulation technique 240(1990)229

At. abs. spectrometry; Emission spectrom.; Metal impurities; Acid decomposition; Vapour phase, PTFE bomb 245(1991)35

Emission spectrom.; Boron; Direct current; Plasmas; Acid decomposition, Mannitol 245(1991)207

Emission spectrom.; Spectrophotometry; Geological materials; Plasmas; Centrifugation, Differentiation of colloidal and dissolved silica, Filtration, Inductively coupled, Tufts 249(1991)509

### **Silica gel**

I.r. spectrometry; Spectrophotometry; Chlorotriazine; Immobilization; Trihydroxyazobenzene; Diffuse-reflectance 228(1990)235

### **Silica speciation**

Spectrophotometry; Emission spectrometry; Plasmas; Waters; High-purity, Inductively coupled 204(1988)339

### **Silica with hydroxamic acid groups**

Reflectance spectrometry; Opto-acoustic spectroscopy; Synthesis 219(1989)201

### **Silicate**

Flow system; Spectrophotometry; Ion exchange; Arsenate; Phosphate 204(1988)53

Spectrophotometry; Flow system; Waters; Rhodamine B 239 (1990)151

Chromatography; Ion exchange; Arsenate; Germanate; Phosphate; Molybdenum blue reaction, Post-column detection 249(1991)539

#### **Silicate glasses**

Melting temperature; Monte Carlo method; Calculation 210 (1988)199

#### **Silicate materials**

At. abs. spectrometry; Electrotherm. atomization; Microwave dissolution 220(1989)263

#### **Silicon**

Electrotherm. atomization; At. abs. spectrometry; Matrix modifiers 220(1989)83

I.r. spectrometry; Flow reactor; Gas cell; Methylchlorosilane 222(1989)221

#### **Silicon carbide**

I.r. spectrometry; Diffuse reflectance; Inorganic powders; Silica; Blocker device, Simulation technique 240(1990)229

#### **Silicon electronic devices**

I.r. spectrometry; Fourier transform; Polyimide films; Langmuir-Blodgett films; Attenuated total reflectance 240(1990)81

#### **Silicone rubber**

Ion-sensitive field effect transistor; Potassium; Membrane materials; Polymers 231(1990)41

#### **Siloxane polymer**

Potentiometry; Ion exchange; Ferrocene; Glucose; Glucose oxidase 228(1990)23

#### **Silver**

Potentiometry; Flow system; Constant-current stripping 207 (1988)27

Voltammetry; Ion exchange; Mercury; Zeolite-containing carbon-paste electrodes; Preconcentration 207(1988)95

Emission spectrometry; Extraction; Geological materials; Plasmas 207(1988)171

Electrotherm. atomization; At. abs. spectrometry; Extraction; Gold; Thallium; Urine; Flame, Iodide complexes 207(1988)283

Piezoelectric sensing; Cyclic voltammetry; Adsorption 209 (1988)213

Anod. stripping voltammetry; Chemicals; Nafion/crown ether film electrode 212(1988)341

Amperometry; Titrimetry; Square-wave 219(1989)37

Potentiometry; Flow system; Photographic fixers; Indirect 220(1989)287

Amperometry; Chelating resin; Modified electrode; Preconcentration; Carbon paste electrode 229(1990)213

At. abs. spectrometry; Gold; Palladium; Platinum; Rhodium; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

At. abs. spectrometry; Gold; Plasma; Graphite furnace, Zeeman effect background correction, Copper-gold-silver salt mixture, Rat, Anti-inflammatory 235(1990)393

Coulometry; Titrimetry; Iron; Steel; Hydrogen sulphide 244 (1991)59

Diff. pulse voltammetry; Copper; Gold; Reactor moderator water; Mercury; Waters 249(1991)447

#### **Silver chalcogenide membranes**

Ion-selective electrodes; Cyanide; Electroplated membranes 242(1991)73

#### **Silver chloride**

Potentiometry; Ion-selective electrodes; Phosphate glasses; Alkali metal-free, Anion-selective, Ion chromatography, Electron probe microanalysis 237(1990)135

#### **Silver colloid**

Raman spectrometry; Dye; Surfactant; Surface-enhanced 225 (1989)227

#### **Silver complexes**

Titrimetry; Potentiometry; Conductimetry/oscillometry; Mesoionic compounds; Photographic additives; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248 (1991)603

#### **Silver complexes stability constants**

Potentiometry; Bromide; Thiocyanate; Monte Carlo methods 215(1988)187

#### **Silver nitrate**

Algorithm; Computer; Extraction 228(1990)229

#### **Silver substrates**

Raman spectrometry; Aminoacridine; Surface enhanced, Filter-paper, Silver membrane, Glass slide 237(1990)439

#### **Silver-wire electrode**

Flow system; Potentiometry; Cyanide; Gas-diffusion separation; Membrane barrier, Selectivity 233(1990)77

#### **Silylation**

Potentiometry; Poly(hydroxyethyl methacrylate); Sensor; Semiconductor, Ion-sensitive field effect transistor 230(1990)59

#### **Similarity search**

N.m.r. spectrometry; Data base, Proton 206(1988)173

#### **Simplex algorithm**

Gas chromatography; Essential oils; Fragrance matching 248 (1991)41

#### **Simplex method**

Spectrophotometry; Multicomponent analysis; Rare earth elements 222(1989)323

#### **Simplex optimization**

Emission spectrometry; Plasmas; Multi-element, Inductively-coupled, Wide-bore injector, Minimum interference 209 (1988)135

Conductometry; Gas chromatography; Alkanes; Hydrogen; Semiconductor gas sensors 216(1989)147

Spectrophotometry; Aluminium 223(1989)403

Spectrophotometry; Kalman filter; Matrix effect 225(1989)37

Chemiluminescence; Fuzzy linear-weight transformation, Multiple feature 236(1990)495

Flow system; Pattern recognition; Response surface mapping; Automated optimization 237(1990)361

Spectrophotometry; Lasers, tunable diode; Nitrogen oxides; Sweep averaging 241(1990)83

Advanced regular simplex algorithm 248(1991)31

### Simplex search

Distribution plots; Maximal or minimal concentrations 206(1988)189

### Simulated spectra

I.r. spectrometry; Polystyrene; Silica; Dielectric function 240(1990)187

### Simulation

Cyclic voltammetry; Kinetic analysis; Orthogonal collocation; Heterogeneous equivalent formulation; Fast second-order reactions 243(1991)301

### Simulation of mathematical models

Flow system; Single-line, Without chemical reaction 208(1988)133

### Simultaneous distillation-extraction

Gas chromatography; Volatile component, Natural product 226(1989)183

### Single bead-string reactor

Flow system; Kinetic analysis; Spectrophotometry; Paracetamol; Optimization 204(1988)29

### Skatole

Fluorimetry; Quenching; Pyridine 230(1990)213

### Slags

Potentiometry; Fluoride; Ores; Direct fusion 219(1989)335

### Slope estimations at terminal values

Equidistant data of three derivatives 217(1989)395

### Sludges

H.p.l.c.; Ion exchange; Conductometry; Soils; Tungstate 217(1989)383

### Sodium

Flow system; Spectrophotometry; Extraction; Potassium; Waters; Silica column 214(1988)289

Extraction; Lithium; Synergic 220(1989)111

Ion-selective electrodes; Ion-sensitive field effect transistor; Fibre-optic sensor; Ionophores; Blood; Serum; Lipophilic, 1,2-Phenylenedioxycetamides 233(1990)295

Ion exchange; Amberlite IRC-84, Resin carboxylic protons, Cation exchange 244(1991)275

### Sodium aluminate

Emission spectrometry; Bayer process, Inductively coupled plasma 221(1989)91

### Sodium hydrogensulphite

Flow system; Spectrophotometry; Parenteral solutions 220(1989)281

### Sodium hydroxide

Titrimetry; Piston burette; Calibration 223(1989)461

### Sodium ion membrane electrode

Potentiometry; Crown ether, PVC 212(1988)325

### Sodium-selective electrode

Potentiometry; Methyl *p*-*t*-butylcalix[4]aryl acetate 204(1988)223

### Soft drinks

Amperometry; Flow system; Glucose; Foods; Enzyme electrodes; Hydrogen peroxide, Membrane 242(1991)91

### Soft ionization techniques

Mass spectrometry; Lipids; *Serratia marcescens* 247(1991)283

### Soils

Electrotherm. atomization; At. abs. spectrometry; Extraction; Palladium; Platinum; Rocks; Iodo complexes 204(1988)333

Emission spectrometry; Computer-controlled rapid-scanning echelle monochromator; Plasmas; Sediments; Trace elements; Inductively-coupled 207(1988)269

Kinetic analysis; Polarography; Biological samples; Paraquat; Photoreduction; Waters 209(1988)79

At. abs. spectrometry; Mercury; Digestion procedures, Cold-vapour 209(1988)147

H.p.l.c.; Ion exchange; Conductometry; Sludges; Tungstate 217(1989)383

Liquid chrom.; Extraction; Plutonium;  $\alpha$ -Spectrometry 220(1989)103

Flow system; Spectrophotometry; Carboxylic acid; Food; Citric acid 221(1989)19

Flow system; Spectrophotometry; Boron; Ultrasonic leaching 226(1989)221

At. abs. spectrometry; Hydride generation; Lead; Alloys; Oxalic acid-ammonium cerium(III) nitrate-potassium tetrahydroborate medium 231(1990)151

Waters; Humic substances; Forests; Fractionation: XAD-8 hydrophobic resin 232(1990)3

N.m.r. spectrometry; Mass spectrometry; Humic substances; Waters; Fulvic acids; Isotope ratios; Amino acid analysis 232(1990)19

N.m.r. spectrometry; Humic acids; Sediments; Philippines 232(1990)31

Gas chromatography; Polycyclic aromatic hydrocarbons; Spiking procedure, 2-Methoxyethanol extraction 237(1990)451

Gas chromatography; Mass spectrometry; Chlorotriazine pesticides; Organophosphorus pesticides; Pesticides 243(1991)259

Isotope dilut. analysis; Contamination; Nitrogen; Extraction, Distillation, Drying 245(1991)49

#### Solid dosage formulations

At. abs. spectrometry; Electrotherm. atomization; Calcium carbonate scale; Carbonate rocks; Copper 209(1988)287

#### Solid samples

At. abs. spectrometry; Electrotherm. atomization; Antimony; Semiconductor silicon 201(1987)311

H.p.l.c.; Kalman filter; Robot system; One-dimensional 209(1988)45

At. abs. spectrometry; Flow system; Microwave oven digestion; Sewage sludge; Flame, Manifold, Slurries 238(1990)417

Mass spectrometry; Spark source, Graphite rod electrode, Silver acrylic paint 242(1991)117

Flow system; Sample introduction; Ultrasonic irradiation; Iron; Plant materials; Direct introduction, Leaching 242(1991)283

#### Solid-phase extraction

Liquid chrom.; Toxicity; Waters; Industrial wastewater effluents, Toxicity reduction, Fractionation 236(1990)131

Liquid chrom.; Sample preparation; Ecdysteroids; Insects; Hormones, Sep-Pak cartridge, Phenylboronic acid 236(1990)145

#### Solid-phase extraction cartridges

Gas chromatography; Mass spectrometry; Petroleum hydrocarbons 204(1988)135

#### Solubility

Liquid chrom.; Polynuclear aromatic hydrocarbons; Cyclodextrin complexes; Formation constants; Non-inclusion association, Temperature dependence 232(1990)239

Gases; Henry's law 238(1990)257

#### Solubilization

Fluorimetry; Liquid chrom.; Benzo[*a*]pyrene; Polynuclear aromatic hydrocarbons; Coal washing water 243(1991)115

#### Solute-micelle binding constants

Liquid chrom.; Electrophoresis; Micellar, Electrokinetic 246(1991)131

#### Solvent effect

Autoprotolysis constants; Carboxylic acid; Dimethylformamide 228(1990)301

#### Solvent extraction

Chirality; Metal chelate 221(1989)179

(Chlorophenyl)methylaroylpyrazolone; Zinc; Trioctylphosphine oxide 226(1989)187

Flow system; Zone sampling 226(1989)255

At. abs. spectrometry; Emission spectrometry; Mass spectrometry; Gold; Platinum; Zeeman effect, Graphite furnace 229(1990)227

#### Solvent identification

Principal components; Chemometrics; Cluster analysis;

Ethanol; Partial least squares; Tin oxide thin-film sensor array 250(1991)257

#### Solvent strength

Liquid chrom.; Alumina columns; Selectivity; Retention mechanism; Polybutadiene-coated 246(1991)113

#### Solvent venting interface

Gas chromatography; Plasma; Microwave-induced 233(1990)149

#### Sorbitol dehydrogenase

Fluorimetry; Liquid chrom.; Enzyme reactor 248(1991)367

#### Spatial resolution

Gas chromatography; Mass spectrometry; T.l.c.; Pattern recognition; Secondary ion, Phase-transition matrix 218(1989)217

#### Speciation

Voltammetry; Waters; Trace metal, Adsorptive stripping, Chelates of solochrome violet RS 201(1987)43

Anod. stripping voltammetry; Ion exchange; Toxicity; Waters; Physicochemical, Metal to *Chlorella pyrenoidosa* 209(1988)97

Gas chromatography; At. abs. spectrometry; Alkyllead; Grass; Tree leaves 228(1990)77

Voltammetry; Waters; Copper; Computer simulation; Conditional stability constant, Cathodic stripping, Sea water, Estuarine water, Freshwater, Complexation 235(1990)287

Liquid chrom.; At. abs. spectrometry; Mercury; Waters; Pre-concentration; Waste waters, Cold vapour, Microcolumn 235(1990)399

Voltammetry; Nickel; Air; Adsorptive stripping, Magnetic extraction 235(1990)457

Cyclic voltammetry; Diff. pulse polarography; Diff. pulse voltammetry; Vanadium; EDTA complexes 236(1990)315

Voltammetry; Histidine; Nickel; Histidine complex, Aqueous ammonia 246(1991)301

Gas chromatography; Biological samples; Fish; Mercury; Organomercury halides; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

#### Specification techniques

Process analysis; Structured methods; Systems analysis 238(1990)79

#### Spectral feature/substructure relationships

Mass spectrometry; Pattern recognition; Artificial-intelligence program; Automated elucidation, Tandem 215(1988)169

#### Spectral library search

Spectrophotometry; Singular values, Eigenvectors, Spectral subtraction 237(1990)223

#### Spectral primary space

Gas chromatography; Mass spectrometry; Alternating regression; Component reconstruction 250(1991)169

#### Spectrocoulometric study

Spectrophotometry; Coulometry; Hydrolysis of complex ion; Tris(1,10-phenanthroline)iron(III) 209(1988)87



**Spectropolarimetry**

Propoxyphene hydrochloride; Pharmaceuticals; Enantiomeric purity 241(1990)115

**Specular reflectance**

I.r. spectrometry; External reflection; Fresnel's equations, Weakly absorbing organic materials, Refractive index 240 (1990)179

**Spices**

Isotope dilut. analysis; Manganese; Biological samples; Foods; Thenoyltrifluoroacetone complex 234(1990)445

**Spinal fluid**

Voltammetry; Halides; Waters; Cathodic stripping 215(1988) 307

**Spline functions**

Copper; Extraction; Surface excess isotherm 206(1988)215

**Spreadsheet**

Liquid chrom.; Expert system 223(1989)183

**Spruce needle**

Mass spectrometry; Principal components; Thermal degradation; Air pollution 223(1989)371

**Squalane**

Gas chromatography; Apolane-87; Reference phase 225 (1989)193

**Stability constants**

Polarography; Conductometry; Crown ether complexes; Divalent cations 201(1987)117

Polarography; Cadmium; Lead; Oxalate, Sulphate 223(1989) 429

Spectrophotometry; Potentiometry 226(1989)323

Spectrophotometry; *p*-Nitrophenol adducts; Multiwavelength data treatment 242(1991)57

**Stability of iron complexes**

N.m.r. spectrometry; Magnetic resonance imaging agents 217 (1989)391

**Staining system**

Electrophoresis; Biomolecule purification; Automated 213 (1988)207

**Stainless steels**

Mass spectrometry; Hydrogen; Spark source, Ion-source baking, Cryogenic pump 236(1990)351

Flow system; Alloys; Plasmas; Inductively coupled, Multi-elemental analysis, Flow-through electrolytic cell 245(1991)211

**Standard addition**

Kinetic analysis; Fluorimetry 224(1989)225

Potentiometry; Concentration cell; Fluoride 225(1989)97

**Standard solution**

Methylmercury; Long-term stability 229(1990)281

**Standards**

Chromatography; Exponential dilution; Gaseous, Concentration gradients 236(1990)221

**Starch**

Flow system; Amperometry; Carbohydrate; Enzyme reactor; Immobilized glucoamylase 204(1988)43

Gel perm. chromatography; Flow system; Enzyme reactor; Glycogen; Amylase; Controlled-pore glass beads, Hydrolysis 234(1989)97

**Statistical analysis**

Titrimetry; Boron preservatives; Wood; Collaborative studies; Quality control; Boric acid 236(1990)423

**Statistics**

Edible oil; Optimization 223(1989)237

**Steam distillation**

Chromatography; Sample preparation; Resin extraction; Organic compounds, Aqueous samples 236(1990)43

**Steels**

Spectrophotometry; Extraction; Niobium 204(1988)365

Spectrophotometry; Extraction; Tungsten 208(1988)91

Spectrophotometry; Minerals; Vanadium; With methoxypropazine maleate 209(1988)293

Flow system; Spectrophotometry; Electrolytic dissolution; Molybdenum 214(1988)397

Spectrophotometry; Extraction; Molybdenum 219(1989)323

Spectrophotometry; Aluminium; Ethyl tetrabromophenolphthalein; Nickel ion; Pyridyldiphenyltriazine 221(1989)109

Potentiometry; Titrimetry; Chromium; High-alloy, Reference method, Dissolution 236(1990)399

At. abs. spectrometry; Cobalt; Aluminium alloys; Preconcentration; Tetradecyldimethylbenzylammonium thiocyanate adsorbent, Naphthalene support, Nitroso-R salt 237(1990)201

Liquid chrom.; Transition elements; Rare earth elements; Low-alloy, Post-column reaction detection, 4-(2-pyridylazo)resorcinol, Arsenazo-III 237(1990)325

Emission spectrometry; At. abs. spectrometry; Electrotherm. atomization; Plasma; Vanadium; Titanium; Inductively coupled, Tungsten boat atomizer 239(1990)139

Coulometry; Titrimetry; Silver; Iron; Hydrogen sulphide 244 (1991)59

At. abs. spectrometry; Extraction; Geological materials; Vanadium; Graphite furnace, Meteorites 246(1991)359

At. abs. spectrometry; Arsenic; Extraction; Waters; Graphite furnace, Arsenomolybdic acid 247(1991)13

**Sterchamol**

Gas chromatography; Dye adsorption; Methyl red; Retention mechanism 232(1990)413

**Steroid labels**

Chemiluminescence; H.p.l.c.; Immunoassay; Quality control 205(1988)175

**Steroidal primary alcohols**

Fluorimetry; Liquid chrom.; Cyanoisindole 228(1990)307

**Steroids**

T.l.c.; Mass spectrometry; Peptides; Surface derivatization; Secondary ion 218(1989)231

Flow system; Chemiluminescence; Cortisone; Corticosterone; Hydrocortisone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

Mass spectrometry; Aminoandrostane quaternary salts; Pipecuronium bromide; Fast atom bombardment, Arduan 241(1990)289

Chemiluminescence; Immunoassay; Methyltestosterone; Direct reading, Microtitre plates, Luminoskan, Solid-phase 248(1991)207

**Steroids, anabolic**

Gas chromatography; Mass spectrometry; Formebolone metabolism 247(1991)211

**Stoichiometry**

Potentiometry; Titrimetry; Semiconductors; Gallium arsenide; Arsenic 244(1991)247

Potentiometry; Titrimetry; Superconductors; Copper, Oxygen content,  $\text{YBa}_2\text{Cu}_3\text{O}_y$  244(1991)253

**Stopped-flow dialysis**

Amperometry; Blood-glucose; Carbon-fibre; Glucose-oxidase 221(1989)205

**Stopped-flow technique**

Chemiluminescence; Hydrogen peroxide; Luminol 217(1989)239

Flow system; Kinetic analysis; Spectrophotometry; Fluorimetry; Review 242(1991)147

**Streaming potential**

Flow system; Potentiometry; Proteins; Affinity column 213(1988)79

Ion exchange; Chromatography; Selectivity coefficient 228(1990)61

**Strongly oxidizing agents**

Spectrophotometry; Flow system; Monosaccharides; Manganese(VI), Copper(III) 211(1988)99

**Structure determination**

Computer program; X-ray absorption fine-structure; Atomic local structure 210(1988)143

Mass spectrometry; Computer program; Protein; Peptides; Antibiotics; MASSPEC, Graphics-based data system 237(1990)459

I.r. spectrometry; Review; Automated spectral interpretation; Computer-assisted interpretation of spectra; Knowledge-based system; Library search, Pattern recognition 240(1990)3

Mass spectrometry; Adipokinetic hormones; Hormones; Peptides; *Locusta migratoria*, Fast atom bombardment, Tandem 248(1991)553

**Structure generator**

Molecular graphs 235(1990)221

**Structure retention relationship**

Gas chromatography; Alkylbenzenes 212(1988)317

**Structure / property correlation**

Graph theory; Molecular graph, Wiener equation 234(1990)487

**Structure / property relationships**

Theoretical foundation of molecular structures 206(1988)233

**Structured methods**

Process analysis; Systems analysis; Specification techniques 238(1990)79

**Styrene monomer**

Gas chromatography; Polystyrene; Toluene solvent, Head-space 218(1989)345

**Styryl derivatives of quinolinizinium salts**

Fluorimetry; Micellar media; Solvatochromic effect 205(1988)129

**Subambient temperature separations**

Chromatography; Reversed-phase liquid chromatography 246(1991)139

**Submillimetrewave spectroscopy**

I.r. spectrometry; Fluoromethane; Pure rotational transitions, Acoustic detection 240(1990)167

**Substitution approach**

Titrimetry; Acidity; Rain 217(1989)303

**Substrate recycling**

Flow system; Amperometry; Phosphate; Enzyme reactor; Co-immobilized purine nucleoside phosphorylase-xanthine oxidase, Co-immobilized purine nucleoside phosphorylase-xanthine oxidase-alkaline phosphatase 238(1990)339

**Substrate-tether systems**

Spectrophotometry; Aromatic diazonium ions, Immobilized probe 243(1991)103

**Substructure coding**

Pharmacological prediction; Toxicological prediction; Graph theory 210(1988)203

**Succinylcholine**

Potentiometry; Ion-selective electrodes; Membrane electrodes; Pharmaceuticals; Pancuronium; Tubocurarine; Gallamine; Muscle relaxants 238(1990)405

**Sucrose**

Flow system; Spectrophotometry; Molasses; Sugar-cane juice 204(1988)259

Spectrophotometry; Flow system; Molasses; Sugar-cane juice 214(1988)247

Potentiometry; Kinetic analysis; Lactose; Periodate-selective electrode 224(1989)159

Amperometry; Enzyme electrode; Glucose; Immobilized invertase, Beverages 236(1990)245

Amperometry; Biosensors; Enzyme reactor; Foods; Yeast cell walls; Invertase, Mutarotation, Phosphate 247(1991)83

Flow system; Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Microorganism filtration unit, Baker's yeast 249(1991)137

**Sugar-cane juice**

Flow system; Spectrophotometry; Molasses; Sucrose 204 (1988)259

Spectrophotometry; Flow system; Molasses; Sucrose 214 (1988)247

**Sugars**

H.p.l.c.; Fermentation of whey; On-line, Ultrafiltration 204 (1988)127

Flow system; Chemiluminescence; Enzyme reactors 205 (1988)195

Quartz crystal resonator; Viscous liquids; Alcohols; Piezoelectric sensor 231(1990)317

Flow system; Lactic acid; Protein; Biomass; Fermentation; Enzyme reactor; On-line 237(1990)165

Thermom. analysis; Process analysis; Biosensor; Enzyme thermistor; Glucose, Maltose, Sucrose, Fermentation 238(1990)211

Liquid chrom.; Flow system; Cyclic voltammetry; Amperometry; Carbohydrates; Nickel-catalysed glassy carbon electrode 248(1991)117

**Sulphamethizole**

Kinetic analysis; Potentiometry; Cephalixin; Cetyltrimethylammonium bromide; Pharmaceuticals; Micellar catalysis 219(1989)295

**Sulphapyridine**

Voltammetry; Electrochemical oxidation, Graphite electrode 228(1990)273

**Sulphate**

H.p.l.c.; Conductometry; Air; Nitrate; Nitrite; Passive monitors 217(1989)135

Spectrophotometry; Flow system; Water 228(1990)287

Flow system; Amperometry; Calibration; Indirect determination 238(1990)431

Emission spectrom.; Disulphur; Disulphur molecular emission 243(1991)227

Flow system; Spectrophotometry; Waters; In-line preconcentration, Anion-exchange resin, Methylthymol blue-barium complexation 244(1990)109

**Sulphide**

Spectrophotometry; At. abs. spectrometry; Extraction; Fluoride; Phosphate 208(1988)313

Emission spectrometry; Flow system; Molecular emission cavity analysis 225(1989)359

Spectrophotometry; Caustic scrubbing liquor; Mercaptan; Simultaneous determination 226(1989)165

**Sulphide minerals**

Voltammetry; Iron pyrite; Cationic surfactants 207(1988)311

**Sulphide sensor**

Potentiometry; Air-gap 204(1988)213

**Sulphite**

Spectrophotometry; Flow system; Brine; Potassium chloride; Process analysis; 5,5'-Dithiobis(2-nitrobenzoic acid) 238 (1990)171

**Sulphite electrode**

Potentiometry; Polymeric-membrane 217(1989)123

**Sulphonamides**

Flow system; Pharmaceuticals; Serum; Urine 204(1988)271

Spectrophotometry; Arylamine; Micelle; Diazotization, Pharmaceutical preparation 223(1989)327

Spectrophotometry; Derivative spectroscopy; Pharmaceuticals; Bratton-Marshall reaction, Urine, Honey 233(1990)289

Kinetic analysis; Spectrophotometry; Pharmaceuticals; Azo dye, Continuous addition of reagent 237(1990)353

Flow system; Spectrophotometry; Arylamines; Diazotization, Coupling, Micellar medium 242(1991)143

**Sulphonic resin**

Ion exchange; Carboxylic resin; Cation affinity; Phosphinic resin 225(1989)323

**Sulphosalicylate**

Liquid chrom.; Iron; Phenanthroline 224(1989)65

**Sulphur**

Electrotherm. atomization; Spectrophotometry; Fuel oils; Carbon sulphide molecules 201(1987)59

Isotope dilut. analysis; Extraction; Plants 219(1989)97

Emission spectrometry; Molecular emission cavity analysis; Quenching, Oxygen-hydrogen flame 235(1990)413

Titrimetry; Ion exchange; Chromatography; Process analysis; Gas treatment; Thiols; Automated titrator 238(1990)161

Flow system; Spectrophotometry; Turbidimetry/nephelometry; Plant materials; Waters; Two-line manifold 249(1991)479

**Sulphur anions**

H.p.l.c. 207(1988)301

Flow system; Kinetic analysis; Catalyzed iodine-azide reaction 211(1988)299

**Sulphur dioxide**

Conductometry; Air; Wall-jet detector; Preconcentration in water 203(1987)1

Fluorimetry; Air; Fibre-optic sensor 208(1988)53

Flow system; Chemiluminescence; Wines; Young white 214 (1988)429

Piezoelectric sensing; Organophosphine transition metal complexes 217(1989)101

Opto-acoustic spectroscopy; Gases; Ultraviolet laser 218 (1989)101

Flow system; Carbon dioxide; Wine; Gas-diffusion 225(1989)443

Spectrophotometry; Copper complex; Optical waveguide; Sensor 226(1989)153

Flow system; Amperometry; Air; Alcohols; Enzyme reactor; Gas detection; Hydrogen peroxide; Continuous monitoring, Platinum electrode 248(1991)379

**Sulphur hexafluoride**

Gas chromatography; Helium-3; Sea water; Tracers; Waters; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

**Sulphur poisoning**

Electron probe analysis; Hydrogenation; Nickel catalyst 226 (1989)43

**Sulphur residues**

Polarography; H.p.l.c.; Grapes; Wheat; Sampled d.c., Differential pulse 207(1988)305

**Sulphur sample**

Fluorimetry; Selenium 206(1988)345

**Sulphur valence states**

Kalman filter; Peak resolution 248(1991)257

**Sulphur-containing pesticides**

Amperometry; H.p.l.c.; Pulsed, Reversed-phase 215(1988)1

**Sulphydryl compounds**

Amperometry; Chemically modified electrodes; Rotating graphite electrodes, Electrocatalytic oxidation 243(1991)287

**Superconducting ceramics**

Chemiluminescence; Metastable transfer emission spectrometry; Thermally labile oxygen; High-temperature, Microwave discharge 217(1989)53

**Superconductors**

Emission spectrometry; Barium; Copper; Yttrium; Inductively coupled plasma 221(1989)167

Ceramics; Oxygen valence, Quantum-field model 233(1990)155

Titrimetry; Potentiometry; Oxygen;  $x$  in  $\text{YBa}_2\text{Cu}_3\text{O}_{6.5+x}$  237 (1990)421

I.r. spectrometry; Vibrational structure; Reflectance, Ceramic 240(1991)273

Potentiometry; Titrimetry; Stoichiometry; Copper, Oxygen content,  $\text{YBa}_2\text{Cu}_3\text{O}_y$  244(1991)253

**Supercritical fluid extraction**

H.p.l.c.; Caffeine; Morphine; Plant materials; Quinine; Serum 213(1988)237

Liquid chrom.; Extraction; Polycyclic aromatic hydrocarbons; Supercritical fluid chromatography, Microextractor cell geometry 248(1991)263

**Superoxide**

Electron spin res.; Oxygen free radicals; Copper complexes, Hydroxyl radicals 243(1991)221

**Superoxide dismutase**

Amperometry; pH; Xanthine oxidase 222(1989)247

**Superoxide dismutase activity**

Flow system; Amperometry; Oxygen probe 211(1988)195

**Superoxide generation**

E.s.r.; Chemiluminescence 218(1989)179

**Supervised learning**

Pattern recognition; Environmental analysis; Class-in-class modelling 243(1991)311

**Supervised technique**

Pattern recognition; Classification; Sample size 223(1989)19

**Surface acoustic wave sensors**

Opto-acoustic spectrom.; Adsorption isotherms; Gases; Humidity correction algorithm 248(1991)337

**Surface analysis**

Fuzzy theory; Homogeneity, Depth profiles 239(1990)61

Mass spectrometry; X-ray fluore. spectrometry; Glassy carbon electrodes; Scanning electron microscopy; Electrochemical modification, Solid-state characterization 248(1991)127

**Surface analysis of tablets**

Phosphorimetry; Room-temperature 205(1988)279

**Surface derivatization**

T.l.c.; Mass spectrometry; Peptides; Steroids; Secondary ion 218(1989)231

**Surface electromagnetic wave spectrometry**

I.r. spectrometry; Radiometry; Thin solid films, Optical properties, Quartz resonators 240(1990)219

**Surface electromagnetic waves**

I.r. spectrometry; Thin films; Fourier transform 240(1990)235

**Surface excess concentration**

Mass spectrometry; Peptide; Fast atom bombardment 223 (1989)349

**Surface excess isotherm**

Copper; Extraction; Spline functions 206(1988)215

**Surface plasmon resonance immunosensors**

Immunoassay; Sensitivity 213(1988)35

**Surface-active substances**

Polarography; Voltammetry; Phytoplankton bloom; Humic substances 232(1990)131

**Surfactant vesicles**

Fluorimetry; Aluminium; Quinolin-8-ol-5-sulphonic acid; Water, Dialysis fluid 234(1990)181

**Surfactants**

Flow system; Conductometry; Spectrophotometry; Critical micelle concentrations; Ionic, Nonionic 209(1988)111

Raman spectrometry; Dye; Silver colloid; Surface-enhanced 225(1989)227

Voltammetry; Cobalt; Mercury electrode 228(1990)55

Mass spectrometry; Fourier transform; Textiles; Laser desorption 228(1990)169

Polarography; Tensammetry; Non-ionic, Hanging mercury drop electrode, Adsorption errors 231(1990)77

Liquid chrom.; Nonylphenol polyglycol ether; Non-ionic 236 (1990)273

Diff. pulse voltammetry; Fast scan 237(1990)233

Flow system; Chemiluminescence; Waters; Sea water; Nonidet AT 85, Rhodamine B sensitizer 239(1990)189

Anod. stripping voltammetry; Extraction; Anionic, Ethylenediaminecopper extractant 244(1991)197

Spectrophotometry; Flow system; Dyes; Quaternary ammonium, Sodium dodecyl sulphate 246(1991)333

Polarography; Progesterone; Linear sweep, Cetyltrimethylammonium bromide 248(1991)103

### Sweat

Mass spectrometry; Biological samples; Liquid ionization; Diethylene glycol, Exercise 246(1991)405

### Sweeteners

Potentiometry; Aspartame; Enzyme electrode 206(1988)369

### Switch devices

Immunoassay; Clinical test devices; Disposable analytical devices; Printed liquidic circuits 249(1991)263

### Symbolic logic

I.r. spectrometry; Automated structure elucidation; Computer program 220(1989)155

### Symmetric distance measures

Mass spectrometry 201(1987)225

### Synergic adsorption

Voltammetry; Natural waters; Uranium 221(1989)279

### SYNGEN program

Organic synthesis design 235(1990)103

### Syringe dispenser

Electropneumatic 221(1989)189

### Systems analysis

Process analysis; Structured methods; Specification techniques 238(1990)79

## T

### Tagetes

Mass spectrometry; Leaf gland secretions; Thiophenes; Tandem 232(1990)253

### Taguchi gas sensors

Semiconductor gas sensors; Tin oxide gas sensors; Test rig 249(1991)413

### Talc

I.r. spectrometry; Geological samples 217(1989)353

### Tandem sector mass spectrometers

Mass spectrometry; Biological samples; Macromolecules; Fourier transform 250(1991)105

### Tantalum

Spectrophotometry; Niobium; Reversed matrix representation; Multicomponent mixtures 212(1988)145

Spectrophotometry; 4,5-Dibromo-*o*-nitrophenylfluorone 231(1990)101

### Tartrate

Spectrophotometry; Enantioselective optode; 1-Phenylethylamine, Propranolol, Norephedrine 246(1991)251

### Tea leaves

Electrotherm. atomization; At. abs. spectrometry; Phosphorus; Plant materials 208(1988)351

### Teaching

Process analysis; Education 238(1990)63

### Technetium

Kinetic analysis; Spectrophotometry; Nuclear fuels; Vegetation 207(1988)233

Voltammetry; Glassy carbon, Tri-*n*-octylphosphine oxide, Differential-pulse, Cathodic stripping 211(1988)317

Ion exchange; Environmental sample; Extraction 228(1990)163

### Teeth

Mass spectrometry; Biomineralization; Biomaterials; Bone; Secondary ion 241(1990)299

### Tellurium

At. abs. spectrometry; Hydride generation; Masking of interference 208(1988)347

Ion exchange; At. abs. spectrometry; Cobalt; Copper; Manganese; Nickel 212(1988)191

At. abs. spectrometry; Gold; Palladium; Platinum; Rhodium; Silver; Selenium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231(1990)273

### Temazepam

Diff. pulse voltammetry; Voltammetry; Oxazepam; Camazepam; Benzodiazepines; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

### Temperature programmed decomposition

Gas chromatography; Carbon dioxide; Carbon monoxide; Methane 217(1989)197

### Teniposide

Flow system; Spectrophotometry; Etoposide; On-line electrochemical derivatization; Plasma; Diode-array detection 202(1987)35

Flow system; Blood serum; Multivariate calibration 241(1990)23

### Tensammetry

Voltammetry; Oxyethylated alcohols; Accumulation, Hanging mercury drop electrode 202(1987)85

Voltammetry; Oxyethylated alcohols; Accumulation, Hanging mercury drop electrode, Mixtures 202(1987)97

Cationic detergent; multivariate calibration 223(1989)387

Polarography; Surfactants; Non-ionic, Hanging mercury drop electrode, Adsorption errors 231(1990)77

### Terbium

Fluorimetry; Samarium; Europium; Hexafluoroacetylacetone-triethylphosphine oxide-Triton X-100 231(1990)157

Fluorimetry; Nucleic acids; Phenanthroline, DNA, RNA 248(1991)589



**Ternary complex**

Flow system; Fluorimetry; Fluoride; On-line; Calcein blue, Zirconium 230(1990)137

**Ternary cyclodextrin complexes**

Fluorimetry; Pyrene 207(1988)251

**Ternary solvent**

Potentiometry; Autoprotolysis constant; Water-dioxane-methanol 229(1990)261

**Ternary system**

Ion exchange; Citric acid; Dissociation constant 222(1989)189

**Terns**

Fluorimetry; Polynuclear aromatic hydrocarbons; Shpol'skii technique; Mussels; Biological samples 232(1990)245

**Terpenoid identification**

N.m.r. spectrometry; Carbon-13 nuclear magnetic resonance; Computer-aided; Natural products 236(1990)501

**Tertiary alkylamines**

Spectrophotometry; Extraction; Fabric conditioners; Hair conditioners; Quaternary ammonium salts 219(1989)239

**Test strip**

Amperometry; Alkaline phosphatase; Bovine liver; Theophylline; Whole blood 229(1990)57

**Testosterone**

Immunoassay; Saliva 207(1988)161

Flow system; Chemiluminescence; Steroids; Cortisone; Corticosterone; Hydrocortisone; Progesterone; Sulphite oxidation, Potassium bromate 239(1990)195

Immunoassay; Osmotic pump; Saliva; In situ collection device 248(1991)517

**Tetra-*n*-octylammonium fluoride**

Titrimetry; Conductometry; Anions; Long-chain quaternary ammonium fluorides 238(1990)389

**Tetraalkylammonium sulphonates**

Spectrophotometry; Gas chromatography; H.p.l.c. 218(1989)241

**Tetrabutylammonium alkylsulfonates**

Gas chromatography; Anion chain length, Partition coefficients 246(1991)171

**Tetracycline**

Flow system; Chemiluminescence 205(1988)261

**Tetraethylthiuram disulphide**

At. abs. spectrometry; Mercury complex; Tetramethylene dithiocarbamate; Graphite furnace 226(1989)203

**Tetrahydroborate reductive precipitation**

Electrotherm. atomization; At. abs. spectrometry; Sea water; Trace elements; Preconcentration 207(1988)291

**Tetrahydrofuran**

Liquid chrom.; Oxo-steroids; Dansylhydrazones 225(1989)421

**Tetraiodopalladate**

Spectrophotometry; Quaternary ammonium cation; Liquid-liquid distribution 229(1990)121

**Tetramethylene dithiocarbamate**

At. abs. spectrometry; Mercury complex; Tetraethylthiuram disulphide; Graphite furnace 226(1989)203

**Tetramethylenebis(triphenylphosphonium) cation**

Flow system; Spectrophotometry; Dichromate; Extraction 225(1989)241

Flow system; Spectrophotometry; Bismuth 225(1989)449

**Tetraphenylporphinecobalt(II)**

Kinetic analysis; Spectrophotometry; Norbornadiene derivatives; Photochromism; Porous glass beads, Immobilized 243(1991)97

**Tetrathiafulvalene mediator**

Amperometry; Lactate; Enzyme electrode; Carbon foil, Lactate oxidase 234(1990)459

**Tetrathio ether**

Metal ion; Polythioether; Separation 221(1989)99

**Tetrathio ethers, cyclic**

Spectrophotometry; Copper; Extraction; Liquid-liquid 237(1990)245

**Textiles**

Potentiometry; Sensor; Microelectrode 226(1989)247

Mass spectrometry; Fourier transform; Surfactant; Laser desorption 228(1990)169

**Thallimetric photochemical oxidation**

Spectrophotometry; Titrimetry; Oxalate; Hydrogen peroxide 242(1991)229

**Thallium**

Electrotherm. atomization; At. abs. spectrometry; Extraction; Gold; Silver; Urine; Flame, Iodide complexes 207(1988)283

Anod. stripping voltammetry; Cadmium; Extraction; Indium; Lead; Diethyldithiocarbamates 208(1988)219

Activ. analysis; Zinc metal; Proton 220(1989)93

Spectrophotometry; Crown ether 222(1989)215

At. abs. spectrometry; Graphite furnace, Matrix modifiers 243(1991)239

**Theobromine**

Spectrophotometry; Caffeine; Cocoa beans; Chloroform extraction 232(1990)409

Liquid chrom.; Phosphorimetry; Caffeine; Theophylline; Solid-surface room-temperature 244(1991)215

**Theophylline**

Amperometry; Alkaline phosphatase; Bovine liver; Test strip; Whole blood 229(1990)57

Liquid chrom.; Phosphorimetry; Caffeine; Theobromine; Solid-surface room-temperature 244(1991)215

**Thermal degradation**

Mass spectrometry; Principal components; Spruce needle; Air pollution 223(1989)371

**Thermal lens**

Spectrophotometry; Argon ion laser, Helium-neon laser, Multi-wavelength 235(1990)445

Spectrophotometry; Semiconductor laser; Iron; 2-Nitroso-5-diethylaminophenol 243(1991)109

Spectrophotometry; Nitrogen dioxide; Pulsed carbon dioxide laser, Excimer-laser-pumped 245(1991)191

Spectrophotometry; Aluminium; Mode mismatched 250(1991)95

**Thermally labile oxygen**

Chemiluminescence; Metastable transfer emission spectrometry; Superconducting ceramics; High-temperature, Microwave discharge 217(1989)53

**Thermistors**

Flow system; Fluorimetry; Biosensors; Fermentation; Field-effect transistors; Process analysis; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

**Thermometers**

Thermom. analysis; Capillary melting-point apparatus; Calibration; International Temperature Scale, Fluxed highly pure metals 237(1990)241

**Thiamine hydrochloride**

Kinetic analysis; Potentiometry; Ascorbic acid; Biotin; *N*-bromosuccinimide; Pyridoxine hydrochloride 227(1989)405

**Thienodiazepines**

Liquid chrom.; Spectrophotometry; Amperometry; Coulometry; Pharmaceuticals 234(1990)175

**Thin films**

I.r. spectrometry; Surface electromagnetic waves; Fourier transform 240(1990)235

**Thiobenzamides**

Kinetic analysis; Spectrophotometry; Catalysis, Partition coefficients 212(1988)279

**Thiocyanate**

Polarography; Saliva; Linear-sweep 212(1988)43

Flow system; Spectrophotometry; Cyanide; Microporous membrane 214(1988)259

Potentiometry; Bromide; Silver complexes stability constants; Monte Carlo methods 215(1988)187

Spectrophotometry; Flow system; Cyanide 220(1989)65

**Thiol-bimane derivatives**

H.p.l.c.; Fluorimetry; Reversed-phase 205(1988)43

**Thiols**

H.p.l.c.; Fluorimetry; Disulphides; Rat tissues; Pre-column derivatization 205(1988)29

Amperometry; Flow system; Nickel oxide electrode 229(1990)191

Coulometry; Hydrogen ion; Mercury; Platinum anode, Acetic acid-acetic anhydride 229(1990)221

Liquid chrom.; Waters; Dithiobis(nitropyridine) derivatization, Phthalaldehyde derivatization, Tributylphosphine, Sep-Pak cartridge extraction 236(1990)363

Titrimetry; Ion exchange; Chromatography; Process analysis; Gas treatment; Sulphur; Automated titrator 238(1990)161

**Thiophenes**

Mass spectrometry; *Tagetes*; Leaf gland secretions; Tandem 232(1990)253

**Thiopurine**

Liquid chrom.; Electrochemical activation; Enzymatic activation; Oxidation; Micellar, Horseradish peroxidase 237(1990)305

**Thiopurine compounds**

H.p.l.c.; Serum; Micelles as mobile phase 212(1988)181

**Thiuram disulphides**

Titrimetry; Iodine-azide reaction, Induction coefficients, Dithiocarbamates 243(1991)201

**Thorium**

Fluorimetry; Salicylaldehyde carbohydrazone 224(1989)153

Flow system; Organized media; Micellar media; Insoluble systems; Uranium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

Liquid chrom.; Rare earth elements; Chromium; Ores; Ion pairing, Complexes, Precolumn derivatization 237(1990)311

**Three-dimensional analysis**

Mass spectrometry; Electron probe analysis; Ion-microprobe; Review; Secondary-ion 216(1989)25

**Thylakoid membranes**

Amperometry; Biosensors; Chloroplast membranes; Phytotoxicity; Waters; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55

**Thyroxine**

Chemiluminescence; Flow system; Immunoassay; Haptens; Enzyme system; Horseradish peroxidase, Luminol 237(1990)285

**Tifluadom**

Cyclic voltammetry; Modified electrode; Preconcentration 228(1990)265

**Time-domain differentiation**

Liquid chrom.; Computerized peak resolution; Propyl gallate; Butylhydroquinone; Antioxidants; Foods 234(1990)263

**Time-of-flight mass spectrometer**

Mass spectrometry; Peptides; Proteins; Matrix-assisted, Laser desorption, Pulsed nitrogen laser 248(1991)541

**Time-resolved absorption spectra**

Spectrophotometry; Electrolysis; Dichloroanthracene; Xenon pulse-flash lamp, Millisecond reactions 245(1991)199

**Time-series analysis**

Process analysis; Cusum technique 238(1990)55

**Tin**

Emission spectrometry; Hydride generation; Molecular emission cavity analysis 209(1988)275

Voltammetry; Adsorptive collection; Sea water; Cathodic stripping voltammetry 222(1989)43

Raman spectrometry; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Antitarnish film; Ethylenediaminetetra(methylidenephosphonic acid) 238(1990)399

At. abs. spectrometry; Rocks; Graphite furnace, Silicate 239(1990)145

Polarography; Complexation; Dimethylformamide; Acetonitrile; Free energy of transfer, Stability constants 242(1991)295

**Tin oxide gas sensors**

Semiconductor gas sensors; Taguchi gas sensors; Test rig 249(1991)413

**Tin oxide thin-film sensor array**

Principal components; Chemometrics; Cluster analysis; Ethanol; Partial least squares; Solvent identification 250(1991)257

**Tissue**

Fluorimetry; Densitometry; Photomicrography 227(1989)235

Fluorimetry 227(1989)243

Fluorimetry; Chemiluminescence; Charge coupled device 227(1989)257

Liquid chrom.; Amperometry; Microbe 229(1990)139

**Tissue extracts**

Chemiluminescence; Immunoassay; Choline acetyltransferase 205(1988)183

**Tissue samples**

Fluorimetry; Aldose reductase 206(1988)357

**Titanium**

At. abs. spectrometry; Experimental design; Glass ceramics; Nitrous oxide/acetylene 203(1987)55

Voltammetry; Adsorptive collection; Sea water; Cathodic stripping voltammetry 221(1989)269

Emission spectrometry; At. abs. spectrometry; Electrotherm. atomization; Plasma; Vanadium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139

Mass spectrometry; Boron; Plasmas; Inductively coupled; Reference material, Homogeneity 244(1991)115

Voltammetry; Sea water; Cathodic stripping, Chlorate catalysis 245(1991)167

Activ. analysis; Niobium; Proton activation 247(1991)133

**Titanium dioxide**

Flow system; Conductometry; Waters; Organic pollutants; Film reactor; Immobilized 231(1990)13

**Tobacco smoke**

Gas chromatography; Cigarettes; Alkanes, Hydrocarbons, Particulate matter 236(1990)213

**Tofisopam**

Fluorimetry; Benzodiazepine 227(1989)315

**Tolnaftate**

Liquid chrom.; Spectrophotometry; Dermatological preparation; Undecenoic acid 229(1990)255

**Toluene**

Piezoelectric sensing; Antibody-coated sensors; Pesticides; Film-free 217(1989)111

**Toluene metabolite**

Mass spectrometry; Urine; Silicone membrane source 224(1989)119

**Tomatoes**

Process analysis; Colour monitoring, Tristimulus colorimeters 238(1990)231

**Total organic carbon**

Conductometry; Volatile organic carbon; Waters; Denuder/electrolytic conductivity flow cell 220(1989)1

Conductometry; Photocatalytic oxidation; Waters; Carbon dioxide 233(1990)171

**Toxic compounds**

Mass spectrometry; Pattern recognition; Inductive expert system; SIMCA class modeling 211(1988)11

Chemiluminescence; Environmental pollutants; Recombinant DNA; *Escherichia coli* bioluminescence, Sodium azide, Chloramphenicol 244(1991)201

**Toxicity**

Anod. stripping voltammetry; Ion exchange; Speciation; Waters; Physicochemical, Metal to *Chlorella pyrenoidosa* 209(1988)97

Liquid chrom.; Solid-phase extraction; Waters; Industrial wastewater effluents, Toxicity reduction, Fractionation 236(1990)131

**Toxicological prediction**

Pharmacological prediction; Substructure coding; Graph theory 210(1988)203

**Toxins**

Immunoassay; Potentiometry; Biosensors; Capacitance; Enterotoxin B; Semiconductors; Antibody fixation, Grafted immunospecies 249(1991)367

**Trace element determination**

Microwave digestion 236(1990)337

**Trace elements**

Certification of reference material; Serum; Freeze-dried human 204(1988)63

Emission spectrometry; Computer-controlled rapid-scanning echelle monochromator; Plasmas; Sediments; Soils; Inductively-coupled 207(1988)269

Electrotherm. atomization; At. abs. spectrometry; Sea water; Tetrahydroborate reductive precipitation; Preconcentration 207(1988)291

Ion exchange; At. abs. spectrometry; Spectrophotometry; Manganese metal 215(1988)111

Ion exchange; At. abs. spectrometry; Spectrophotometry; Manganese metal 215(1988)317

Activ. analysis; Environmental materials; Instrumental neutron 219(1989)317

Principal components; Electrotherm. atomization; At. abs. spectrometry; Mussels; Polluted and unpolluted 220(1989)135

At. abs. spectrometry; Gallium trichloride; Volatilization; Electrothermal atomization 226(1989)193

Voltammetry; Waters; Sea water; Lake water; In situ measurements, Copper, Lead, Cadmium, Zinc 237(1990)429

Spectrophotometry; Preconcentration; Copper; Reductive matrix precipitation, Copper oxide, Copper thiocyanate 242(1991)99

Voltammetry; Sea water; Waters; Adsorptive deposition, Cathodic stripping 250(1991)265

### Trace metals

Principal components; Electrotherm. atomization; At. abs. spectrometry; Milk; Cow 201(1987)253

Voltammetry; Anod. stripping voltammetry; Metal alloys; Second-harmonic phase-selective a.c. 204(1988)189

Spectrophotometry; Extraction; Waters; 1,3-Dimethyl-4-acetyl-2-pyrazolin-5-one 207(1988)137

Mass spectrometry; Plasmas; Signal suppression; Inductively coupled, Internal standard 211(1988)91

Activ. analysis; Ion exchange; Serum 211(1988)231

At. abs. spectrometry; Platinum metal; Flame, Pulse aspiration 211(1988)311

Anod. stripping voltammetry; Diff. pulse polarography; Flow system; Waters; Differential-pulse 215(1988)13

At. abs. spectrometry; Sediments; Nitric acid digestion 218(1989)335

Spectrophotometry; Extraction; Hydroxyquinoline; Multicomponent analysis 226(1989)271

Chromatography; Ion exchange; Chemiluminescence; Multi-element detection; Waters; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291

Principal components; Multivariate component analysis; Partial least squares; Tungsten wire 241(1990)147

Mass spectrometry; Isotopes; Clinical analysis; Fast atom bombardment, Monohydride formation 241(1990)249

Multivariate correlation analysis; River water; Atmospheric sampling 242(1991)5

Pattern recognition; Eye cataracts 242(1991)11

Principal components; At. abs. spectrometry; Oysters 248(1991)51

At. abs. spectrometry; Electrotherm. atomization; Extraction; Tungsten hexafluoride; Triethylamine 248(1991)235

Flow system; Emission spectrom.; Plasmas; Preconcentration; Sea water; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241

Voltammetry; Cadmium; Iridium microelectrode; Lead; Waters; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419

Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Copper; Mercury; Preconcentration; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

### Trace organic compounds

Spectrophotometry; Flow system; Membrane-separation 214(1988)299

Gas chromatography; Review; Waters; Preconcentration; Liquid-liquid extraction, Solid sorbents, Headspace techniques, Gas extraction, Volatile compounds 237(1990)1

### Trace organic fluorescent compounds

Fluorimetry; Electroluminescence; Oxide-covered aluminium electrode 207(1988)195

### Tracers

Gas chromatography; Helium-3; Sea water; Sulphur hexafluoride; Waters; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

### Training

Industrial analysis 238(1990)239

### Training sets

Pattern recognition; Discriminants 249(1991)305

### Tranquillizer

Liquid chrom.; Spectrophotometry; T.l.c.; Carazolol; Pig kidney 225(1989)137

### Transduction

Fluorimetry; Enzyme reaction; Lipid membrane; Fluorescence microscopy; Nitrobenzoxadiazolephosphatidylethanolamine fluorophore, Acetylcholinesterase, Acetylcholine substrate 237(1990)253

Analyte recognition; Carriers; Enzymes; Molecular interaction; Optical sensing 250(1991)181

### Transferrin

Fluorimetry; Calmodulin; Förster energy transfer; Protein dynamics 205(1988)161

### Transient signals

Flow system; Auto-by-cross correlation; Photoionization spectroscopy; Signal processing; Transient photocurrent, Laser-excited photoionization 248(1991)195

### Transition elements

Liquid chrom.; Steels; Rare earth elements; Low-alloy, Post-column reaction detection, 4-(2-pyridylazo)resorcinol, Arsenazo-III 237(1990)325

### Transition metal chelate

Liquid chrom.; Pyridylazophenols; Ion-pair 223(1989)339

### Transition metal ions

E.s.r.; Variation of temperature, First-derivative 218(1989)93

At. abs. spectrometry; Antimony; Interferences; Hydride generation, Sodium tetrahydroborate 244(1991)129

### Transition metals

Liquid chrom.; Bromopyridylazodiethylaminophenol; Chelation; Mineral sample; Water 230(1990)23

T.l.c.; Halo complexes, Sulphuric acid 246(1991)451

**Transmission electron microscopy**

Waters; Natural organic matter 232(1990)107

**Transport behaviour**

Spectrophotometry; Nitric acid; Ultracentrifuge; Water; Tri-butyl phosphate/*n*-dodecane mixtures 201(1987)135

**Tree leaves**

Gas chromatography; At. abs. spectrometry; Alkyllead; Grass; Speciation 228(1990)77

**Triazolium thiolate complexes**

Titrimetry; Potentiometry; Conductimetry/oscillometry; Mesoionic compounds; Photographic additives; Silver complexes; Stability constants, Ostwald ripeners 248(1991)603

**Tributyltin oxide**

H.p.l.c.; Amperometry; Polarographic studies 204(1988)151

Gas chromatography; At. abs. spectrometry; Hydride generation; Urine; Wood preservatives 246(1991)351

**Trichloroethane**

Adsorption; Denuder tube; Nitrobenzene; Platinum/lead collection surface 226(1989)145

**Trichothecenes**

Mass spectrometry; Gas chromatography; Heptafluorobutyrate esters, Negative-ion chemical ionization, Tandem 204(1988)233

**Tridodecylamine**

Flow system; Potentiometry; Octadecyl isonicotinate; Neutral carrier 221(1989)139

**Triethylenethiophosphoramidate**

Fluorimetry; Blood 201(1987)77

**Trifluoroacetophenones**

Potentiometry; Ion-selective electrodes; Anion selectivity; Neutral ionophores, Solvent-polymeric membranes 233(1990)41

**Trifluoroethanol**

Fluorimetry; Aza-aromatics; Hydrogen-bonding solvent, Fluorescence enhancement 234(1990)353

**Trihydroxyazobenzene**

I.r. spectrometry; Spectrophotometry; Chlorotriazine; Immobilization; Silica gel; Diffuse-reflectance 228(1990)235

**Trihydroxyindole**

Flow system; Fluorimetry; Epinephrine; Norepinephrine; Urine 229(1990)27

**Trimethylamine oxide**

Potentiometry; Biosensors; Chemoreceptors; Crab antennular receptrodes; Hawaiian crabs 243(1991)157

**Trimethylchlorostannane**

I.r. spectrometry; Solvation 240(1990)199

**Trimetoquinol hydrochloride**

Chromatography; Chiral separation; Optical purity; Micellar electrokinetic chromatography; Laudanosoline, Norlaudanosoline, Laudanosine, Sodium taurodeoxycholate 236(1990)281

**Trinitrobenzenesulphonic acid**

Kinetic analysis; Amino acid; Kalman filter 224(1989)263

**Trinitrotoluene**

Spectrophotometry; Optical membrane; Waters; Clear, Amine-containing poly(vinyl chloride) 217(1989)217

Fluorimetry; Reflectance spectrometry; Fibre optic; In situ; Poly(vinyl chloride); Sensor 221(1989)1

Liquid chrom.; Aminonitrotoluenes 231(1990)313

Fluorimetry; Waters; Nitro compounds; Explosives; Dinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265

**Tripeptides**

Raman spectrometry; Surface enhanced, Colloidal silver 246(1991)75

**Triphenyltin acetate**

Voltammetry; Glassy carbon electrode 224(1989)97

**Triterpanes**

Pattern recognition; Compatibility; Eigenvector; Oil 223(1989)45

Gas chromatography; Mass spectrometry; Biomarkers; Hopanes; Petroleum; Crude oil 235(1990)375

**Triton**

Fluorimetry; Liquid chrom.; Phthalaldehyde; Fluorescamine; Cyclodextrin; Pharmaceuticals 234(1990)187

**Trivalent metal sulphates**

Coulometry; Titrimetry; Potentiometry; Alkali metal halides; Hydrogen/palladium electrode 202(1987)231

**Trypsin**

Electrophoresis; Proteinase; Enzyme activities; Papain; Chromogenic substrates, *N*-Benzoyl-DL-arginine *p*-nitroanilide 238(1990)331

**Tryptophan**

H.p.l.c.; Fluorimetry; Amino acids; Photochemical reactor 205(1988)7

Fluorimetry; Phenylglyoxal, Fluorogenic reagent 248(1991)213

**Tubocurarine**

Potentiometry; Ion-selective electrodes; Membrane electrodes; Pharmaceuticals; Pancuronium; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

**Tubular electrode**

Flow system; Potentiometry; Diethylbarbiturate; Pharmaceuticals 234(1990)221

**Tumorigenic cells**

Fluorimetry; Adriamycin; Binding; Cisplatin; Terbium luminescence 205(1988)77

**Tungstate**

H.p.l.c.; Ion exchange; Conductometry; Sludges; Soils 217(1989)383

**Tungsten**

Spectrophotometry; Extraction; Steels 208(1988)91



Polarography; Ion exchange; Molybdenum; Seawater; Waters; Catalytic current, Preconcentration 218(1989)25

#### **Tungsten electrode**

Potentiometry; Enzyme electrodes; Urea; Immobilized, Urease 239(1990)269

#### **Tungsten hexafluoride**

At. abs. spectrometry; Electrotherm. atomization; Extraction; Trace metals; Trioctylamine 248(1991)235

#### **Turnip extract**

Potentiometry; Flow system; Fluoride-selective electrode; Horseradish peroxidase; Milk 208(1988)173

#### **Tyrosinase**

Flow system; Fluorimetry; Tyrosine; Controlled-pore glass 224(1989)133

#### **Tyrosine**

Flow system; Fluorimetry; Tyrosinase; Controlled-pore glass 224(1989)133

Potentiometry; Amino acids; Phenylalanine; Membrane electrodes; Enzyme reaction; Decarboxylase 239(1990)23

## **U**

#### **Ultracentrifuge**

Spectrophotometry; Nitric acid; Transport behaviour; Water; Tributyl phosphate/*n*-dodecane mixtures 201(1987)135

#### **Ultrafiltration**

Fulvic acids; Humic substances; Iron; Copper; Metal-humate interactions 232(1990)171

Liquid chrom.; Fulvic acids; Atrazine; Laurentian, Binding, Hydrolysis 232(1990)181

#### **Ultramicroelectrodes**

Voltammetry; Cathodic stripping; Fast scan, Mercury hemispherical electrode, Silver disk electrode, Copper amalgam film electrode 239(1990)35

#### **Ultrasonic irradiation**

Flow system; Solid samples; Sample introduction; Iron; Plant materials; Direct introduction, Leaching 242(1991)283

#### **Ultrasonic leaching**

Flow system; Spectrophotometry; Boron; Soil 226(1989)221

#### **Ultraviolet absorption spectra**

Spectrophotometry; Chloramines; Chlorine; In carbon tetrachloride 209(1988)321

#### **Umbelliferol sugars**

Fluorimetry; Lectin; Quenching 220(1989)225

#### **Uncertainty factor**

Quantitative analysis 223(1989)277

#### **Undecenoic acid**

Liquid chrom.; Spectrophotometry; Dermatological preparation; Tolnaftate 229(1990)255

#### **Unstable reagents**

Flow system; Spectrophotometry; Amperometry; Review 216(1989)289

#### **Unsteady motion**

Flow system; Mathematical model 201(1987)109

#### **Uracil derivatives**

Voltammetry; D.c. polarography; Diff. pulse polarography; Cathodic stripping 211(1988)155

H.p.l.c.; Flow system; Voltammetry; Blood; Urine; Differential pulse, Cathodic stripping 211(1988)175

#### **Uranine**

Chemiluminescence; Ion exchange; Chlorine; Waters; Tap, Amberlite anion-exchange resin, Chloramines, Immobilized, Xanthene dye 231(1990)7

#### **Uranium**

Spectrophotometry; Flow system; Ion exchange; Geological samples; Preconcentration 214(1988)279

Fluorimetry; Silica; Time-resolved laser 219(1989)181

Ion exchange; Activ. analysis; Rare earth elements 219(1989)313

Voltammetry; Natural waters; Synergic adsorption 221(1989)279

Spectrophotometry; Bromopyridylazodiethylaminophenol; Nuclear reprocessing 228(1990)279

Isotope dilut. analysis; Mass spectrometry; Geological sample 228(1990)333

Flow system; Ore leachate 230(1990)217

Flow system; Organized media; Micellar media; Insoluble systems; Thorium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239

Fluorimetry; Waters; Geological samples; Time-resolved laser-induced, Complexing media, Mineral phase 238(1990)291

Spectrophotometry; Waters; Ion exchange, Arsenazo III 239(1990)321

Mass spectrometry; Plasmas; Isotope dilution; Sea water; Waters; Marine sediment pore waters 245(1991)83

#### **Uranium nitride**

Gas chromatography; Nitrogen; Nuclear fuels; Plutonium nitride; Oxidation, Glove-box 239(1990)107

#### **Urea**

Flow system; Potentiometry; Enzyme-modified field effect transistor 202(1987)131

Flow system; Potentiometry; Blood; Ammonium electrode, Immobilized urease 209(1988)239

Conductometry; Enzyme-catalyzed reactions; Serum 211(1988)205

Spectrophotometry; Flow system; Body fluids; Urease reactor 218(1989)151

Potentiometry; Biosensor; Creatinine; Enzyme field-effect transistor, Ion-selective electrode 221(1989)157

Flow system; Spectrophotometry; Ammonia 221(1989)173

Fluorimetry; Ammonia; Biosensor; Fibre-optic 227(1989)387

Kinetic analysis; Spectrophotometry; Biacetyl; Serum 230(1990)145

Conductometry; Biosensor; Enzyme reactor; Asparaginase; Creatinine; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

Potentiometry; Enzyme electrodes; Metal-metal oxide, Tungsten 237(1990)399

Spectrophotometry; Flow system; Enzyme reactor; Serum; Gas diffusion, Urease 237(1990)503

Flow system; Biosensor; Field effect transistor; Glucose; Penicillin; Cephalosporin C; Process analysis 238(1990)201

Potentiometry; Enzyme electrodes; Tungsten electrode; Immobilized, Urease 239(1990)269

Potentiometry; Ammonia membrane electrode; Biosensor; Enzyme electrodes; Serum; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

#### Urea cycle disorder

Mass spectrometry; Carbamoylamino acids; Urine; Fast atom bombardment, Tandem, *tert*-Butyldimethylsilyl derivatives 241(1990)273

#### Urease

Ion-sensitive field effect transistor; Micro-enzyme sensor; Covalent bonding 231(1990)305

#### Urease electrode

Potentiometry; Ammonia membrane electrode; Biosensor; Enzyme electrodes; Serum; Urea; Activated poly(vinyl alcohol), Immobilized 249(1991)387

#### Urease reactor

Spectrophotometry; Flow system; Body fluids; Urea 218(1989)151

#### Urease sensor

Flow system; Potentiometry; Chemical sensor testing; On-line analysis 204(1988)7

#### Uric acid

Potentiometry; Field-effect transistor; Hypoxanthine sensor; Amorphous silicon 215(1988)301

Coulometry; Uricase; Urine 225(1989)425

Coulometry; Flow system; Urine 230(1990)195

Amperometry; Enzyme electrodes; Lactate; Pyruvate; Cholesterol; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85

#### Uricase

Coulometry; Uric acid; Urine 225(1989)425

#### Urine

Potentiometry; Bismuth; Copper; Mercury; Constant-current stripping, Gold fibre electrode 202(1987)117

Flow system; Pharmaceuticals; Serum; Sulphonamides 204(1988)271

Flow system; Fluorimetry; Amino acids; Bioluminescence; Enzyme reactor; Serum; Branched-chain 205(1988)229

Chemiluminescence; Immunoassay; H.p.l.c.; Oxazepam 205(1988)249

Potentiometry; Flow system; Cadmium; Lead; Nafion-modified carbon fibre electrodes; Zinc; Computerized flow, Stripping 207(1988)17

Potentiometry; Flow system; Arsenic; Seawater; Constant-current stripping 207(1988)37

Electrotherm. atomization; At. abs. spectrometry; Extraction; Gold; Silver; Thallium; Flame, Iodide complexes 207(1988)283

Kinetic analysis; Spectrophotometry; Competitive binding; Riboflavin; Homogeneous enzyme-linked 208(1988)31

Fluorimetry; Spectrophotometry; Ammonium; Gas-diffusion membrane, pH indicator 208(1988)81

H.p.l.c.; Flow system; Voltammetry; Blood; Uracil derivatives; Differential pulse, Cathodic stripping 211(1988)175

H.p.l.c.; Ethylenethiourea; Filters; Occupational hygiene 212(1988)297

At. abs. spectrometry; Electrotherm. atomization; Beryllium; Matrix modifier 217(1989)271

Voltammetry; Kinetic analysis; Metalloporphyrin modified glassy carbon electrodes 217(1989)343

H.p.l.c.; Catecholamines; On-line purification 218(1989)119

Potentiometry; Kinetic analysis; Pharmaceuticals; Phytic acid; Crystalline growth of calcium oxalate 219(1989)89

Mass spectrometry; Toluene metabolite; Silicone membrane source 224(1989)119

Fluorimetry; Blood; Cyanide; Taurine, Naphthalenedialdehyde 225(1989)351

Coulometry; Uric acid; Uricase 225(1989)425

Liquid chrom.; Fluorimetry; Acetylcarnitine 226(1989)109

Fluorimetry; Immunoassay; Amphetamine; Methamphetamine; Polarization 227(1989)287

Flow system; Fluorimetry; Epinephrine; Norepinephrine; Trihydroxyindole 229(1990)27

Potentiometry; Calcium carbonate; Crystal growth; Phosphate 229(1990)249

Coulometry; Flow system; Uric acid 230(1990)195

Gas chromatography; Extraction; Pharmaceuticals; Drugs of abuse, Column lifetime and performance, Fused-silica capillary columns 236(1990)115

Gas chromatography; Liquid chrom.; Organic acids; Biological fluids; Serum; Extraction 236(1990)121

Liquid chrom.; Acetaminophen; Electrochemical detection, Dual electrodes, Pharmacokinetics 236(1990)293

Gas chromatography; Mass spectrometry; Chloramphenicol; Eggs; Biological materials; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61

Diff. pulse voltammetry; Anod. stripping voltammetry; Lead; Fumed silica 237(1990)177

Actinides; Alpha spectrometry; Preconcentration; Octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide extractant 238(1990)263

Flow system; Liquid chrom.; Extraction; Caffeine; Zidovudine; Beverages; Food 239(1990)171

Mass spectrometry; Sample preparation; Protein metabolism; Protein turnover; Cation-exchange resin, Urinary ammonium, Isotope ratio, Continuous flow, Conway microdiffusion 241(1990)255

Mass spectrometry; Carbamoylamino acids; Urea cycle disorder; Fast atom bombardment, Tandem, *tert*-Butyldimethylsilyl derivatives 241(1990)273

Kinetic analysis; Flow system; Oxalate; Enzyme reactor; Double stopped flow 242(1991)179

Flow system; Voltammetry; Ion-sensitive field-effect transistors; Potassium; Serum; Wall-jet cell, Silicone-rubber membrane 245(1991)159

Gas chromatography; At. abs. spectrometry; Hydride generation; Tributyltin oxide; Wood preservatives 246(1991)351

Gas chromatography; Mass spectrometry; Dimethyladenosine 247(1991)201

Gas chromatography; Mass spectrometry; Methylmalonic acid; Ion-trap detector 247(1991)243

Flow system; Emission spectrom.; Plasmas; Preconcentration; Sea water; Trace metals; Waters; Inductively coupled, Chelating resin 248(1991)241

## V

### Valine

Flow system; Fluorimetry; Enzyme reactor; Isoleucine; Leucine; Immobilized leucine dehydrogenase 218(1989)161

### Valinomycin

Ion exchange; Potentiometry; Liquid chrom.; Alkali metal ion; Potassium ion; Replacement ion chromatography 222(1989)95

I.r. spectrometry; Langmuir-Blodgett films; Phospholipid; Fourier transform; ISFET; Potassium; Structural characterization, Micro-ATR 240(1990)29

### Vanadium

Spectrophotometry; Minerals; Steels; With methoxypromazine maleate 209(1988)293

At. abs. spectrometry; Extraction; Indirect 218(1989)341

Cyclic voltammetry; Diff. pulse polarography; Marine organisms 219(1989)281

Liquid chrom.; Air; Waters; Reversed-phase, 2-(8-Quinolylazo)-5-*N,N*-diethylaminophenol 233(1990)121

Cyclic voltammetry; Diff. pulse polarography; Diff. pulse voltammetry; Speciation; EDTA complexes 236(1990)315

At. abs. spectrometry; Waters; Electrothermal atomization, Hot injection, Graphite tube preconcentration, Magnesium nitrate matrix modifier 236(1990)475

Kinetic analysis; Spectrophotometry; Micellar catalysis, Chemical catalysis, *p*-Phenetidine, Catechol, Bromate oxidative coupling, Cetylpyridinium chloride surfactant 237(1990)207

Voltammetry; Ores; Linear-sweep, 5-Br-PADAP complex 238(1990)375

Emission spectrometry; At. abs. spectrometry; Electrotherm. atomization; Plasma; Titanium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139

Kinetic analysis; Spectrophotometry; 1,4-Dihydroxyphthalimide dioxime oxidation, Bromate, Vanadium catalysis 244(1991)89

Flow system; Radiometric detection; Radiorelease; Radiosilver release 246(1991)329

At. abs. spectrometry; Extraction; Geological materials; Steels; Graphite furnace, Meteorites 246(1991)359

Spectrophotometry; Extraction; Adogen-464, Adipate complex 248(1991)507

### Vanadium complex

Monocarbon molecules; Non-aqueous medium 225(1989)217

### Vapour monitors

Ion mobility spectrometry; Digital filters; Bis-2-chloroethyl sulphide; Narrow-bandpass 232(1990)261

### Vapour-pressure osmometry

Fulvic acids; Molecular weight, Aggregation 232(1990)123

### Variable-volume injector

Flow system; Sample introduction; Calibration 234(1990)253

### Vegetable oils

Spectrophotometry; Microemulsions; Aniline; Diazotization, Coupling, Phase diagrams, Corn oil 235(1990)317

### Vegetables

Spectrophotometry; Gel perm. chromatography; Copper/flavonoid complexes 203(1987)23

Potentiometry; Fluorine; Plants; Open-flame ashing, Microdiffusion 212(1988)133

At. abs. spectrometry; Hydride generation; Lead; Fish; Waters; Wine; Foods; Potassium dichromate 237(1990)181

### Vegetation

Kinetic analysis; Spectrophotometry; Nuclear fuels; Technetium 207(1988)233

### Verapamil

Potentiometry; Ion-selective electrodes; Membrane electrodes; Ion pair, Reineckate, Dibutyl phthalate plasticizer, Poly(vinyl chloride) 235(1990)461

### Vibrational spectra

Ab initio prediction; Quadratic force fields, Database 240(1990)159

### Vibrational structure

I.r. spectrometry; Superconductors; Reflectance, Ceramic 240(1991)273

**Viologens**

Cyclic voltammetry; Amperometry; Enzyme electrodes; Glucose; Electron-transfer mediators, Carbon paste electrode 248(1991)155

**Viscometry**

Lysozyme activity 219(1989)123

Liquid chrom.; Polyamino acids; Continuous differential, Polybenzyl glutamate, Poly-L-tryptophan 249(1991)209

**Viscosity monitoring**

Piezoelectric sensing; Endotoxin; Gelation of *Limulus* amoebocyte lysate 215(1988)91

**Viscous liquids**

Quartz crystal resonator; Alcohols; Sugars; Piezoelectric sensor 231(1990)317

**Vitamin B<sub>6</sub>**

Liquid chrom.; Amperometry; Carbon fibre electrode 230(1990)207

**Vitamin B<sub>12</sub>**

Chemiluminescence; Flow system; Luminol, Hydrogen peroxide, Cobalt 243(1991)127

Voltammetry; Nitrite; Waters 248(1991)109

**Vitamin D**

Flow system; Amperometry; Pharmaceutical preparation 225(1989)247

**Vitamin pills**

Fluorimetry; Kinetic analysis; Ascorbic acid; Fruit juice; *o*-Phenylenediamine 243(1991)89

**Vitamin tablets**

Kinetic analysis; Spectrophotometry; Biotin; Competitive binding; Homogeneous enzyme-linked 208(1988)43

**Vitamins**

Liquid chrom.; Flavins; Two-electrode amperometric detection 239(1990)29

Liquid chrom.; Biotin; Biocytin; Competitive binding; Fluorimetric detection 246(1991)103

Spectrophotometry; Derivative spectroscopy; Pharmaceuticals; Third-derivative 248(1991)583

**Volatile amine**

Polarography; Boiler water; Copper; Dimethyl aminopropanol 229(1990)149

**Volatile metabolites**

Gas chromatography; Fermentation broths 213(1988)11

**Volatile organic carbon**

Conductometry; Total organic carbon; Waters; Denuder/electrolytic conductivity flow cell 220(1989)1

**Volatile organic compounds**

Atmosphere; Polychrom A; Preconcentration 226(1989)213

Gas chromatography; Mass spectrometry; Pattern recognition; Expert system; Low-resolution mass spectra; MAXMASS 246(1991)391

**Volatilization**

At. abs. spectrometry; Gallium trichloride; Trace elements; Electrothermal atomization 226(1989)193

**Volumetric fraction**

Flow system; Dispersion 226(1989)129

**W****Wall-jet detector**

Conductometry; Air; Sulphur dioxide; Preconcentration in water 203(1987)1

Liquid chrom.; Voltammetry; Flow system; Rapid scan, Convection/diffusion-controlled, Diffusion-controlled 234(1989)75

**Warfarin**

Phosphorimetry; Blood serum; Rodenticide; Room-temperature phosphorescence 222(1989)177

Fluorimetry; Carbaryl; Fuberidazol; Pesticide mixture; Variable-angle scanning 228(1990)293

**Water hardness**

Potentiometry; Ion-selective electrodes; Neutral carrier 248(1991)177

**Water pollution**

Quantitative structure/property relations; Structure descriptor, P-vector 235(1990)93

**Water traces**

Flow system; Spectrophotometry; Organic solvents 220(1989)55

**Waters**

Flow system; Potentiometry; Mercury; Fibre electrodes, Computerized, Constant-current stripping 201(1987)1

Voltammetry; Speciation; Trace metal, Adsorptive stripping, Chelates of solochrome violet RS 201(1987)43

H.p.l.c.; Fluorimetry; Flavins; Solid-phase ion-pair extraction 201(1987)127

Spectrophotometry; Nitric acid; Transport behaviour; Ultracentrifuge; Tributyl phosphate/*n*-dodecane mixtures 201(1987)135

Potentiometry; Antimony speciation; Flow constant-current stripping, Gold fibre electrodes 202(1987)123

Fluorimetry; Lubricating oils; Zinc 202(1987)207

Electrotherm. atomization; At. abs. spectrometry; Copper; Coprecipitation preconcentration; Manganese 202(1987)223

H.p.l.c.; Spectrophotometry; Calcium; Magnesium; Post-column reaction 204(1988)87

Diff. pulse polarography; Chlorite 204(1988)169

Anod. stripping voltammetry; Cadmium; Cobalt; Copper; Lead; Nickel; Differential-pulse 204(1988)179

- Spectrophotometry; Emission spectrometry; Plasmas; Silica speciation; High-purity, Inductively coupled 204(1988)339
- Spectrophotometry; Kinetic analysis; Bromide 206(1988)273
- Ion exchange; Conductometry; Spectrophotometry; H.p.l.c.; Anions; Tiron eluent 206(1988)281
- Spectrophotometry; Organophosphorus pesticides; Oxygen-flask combustion 206(1988)299
- Fluorimetry; Anionic surfactants; Extraction; Ion-pair 206(1988)351
- Voltammetry; Organic micropollutants; Phospholipid-coated mercury electrodes 207(1988)47
- Spectrophotometry; Extraction; Trace metals; 1,3-Dimethyl-4-acetyl-2-pyrazolin-5-one 207(1988)137
- Flow system; Kinetic analysis; Cobalt; In-line preconcentration 207(1988)331
- Flow system; Spectrophotometry; Aluminium 207(1988)337
- Potentiometry; Computerized instrument; Fluoride selective electrode; Battery-powered, Field-based, Metal-oxide semiconductor 208(1988)195
- Flow system; Spectrophotometry; Chlorine; Residual 208(1988)317
- Gas chromatography; Mass spectrometry; Extraction; Pendimethaline 208(1988)331
- Kinetic analysis; Polarography; Biological samples; Paraquat; Photoreduction; Soils 209(1988)79
- Anod. stripping voltammetry; Ion exchange; Speciation; Toxicity; Physicochemical, Metal to *Chlorella pyrenoidosa* 209(1988)97
- Spectrophotometry; Phosphorus; Vanadomolybdophosphate 211(1988)119
- Spectrophotometry; Humic substances; Iron 211(1988)293
- Titrimetry; Voltammetry; Complexation in natural waters; Computer simulation of errors; Stripping 212(1988)1
- Voltammetry; Nitrite; Seawater; Cathodic stripping 212(1988)31
- H.p.l.c.; Flow system; Extraction; Organophosphorus pesticides 212(1988)123
- Phosphorimetry; Aluminium; Dialysis fluids; Room-temperature, Ferron chelate in micellar media 212(1988)235
- Spectrophotometry; Flow system; Calcium; Magnesium; Simultaneous 212(1988)291
- Voltammetry; Chloroform; Cresol; Enzyme electrode 213(1988)113
- Spectrophotometry; Flow system; Capillary digester; Phosphorus 214(1988)229
- Flow system; Spectrophotometry; Extraction; Potassium; Sodium; Silica column 214(1988)289
- Flow system; At. abs. spectrometry; Lead preconcentration; Flame 214(1988)329
- Potentiometry; Flow system; Chlorine 214(1988)349
- Cyclic voltammetry; Flow system; Phenolic compounds; Derivative 214(1988)375
- Spectrophotometry; Flow system; Ammonia; Field monitor 214(1988)401
- Anod. stripping voltammetry; Diff. pulse polarography; Flow system; Trace metals; Differential-pulse 215(1988)13
- Anod. stripping voltammetry; Cadmium; Copper; Internal standard; Lead; High-accuracy, Differential-pulse, Indium 215(1988)21
- Polarography; Chlorine; Phenylthiourea solutions; Linear-sweep, Active 215(1988)37
- Piezoelectric sensing; Iodide 215(1988)79
- At. abs. spectrometry; Flow system; Cationic surfactants; Extraction; Indirect, With tetrathiocyanatocobaltate 215(1988)233
- Voltammetry; Halides; Spinal fluid; Cathodic stripping 215(1988)307
- Spectrophotometry; Ozone; Indirect 215(1988)353
- Spectrophotometry; Optical membrane; Trinitrotoluene; Clear, Amine-containing poly(vinyl chloride) 217(1989)217
- Polarography; Ion exchange; Molybdenum; Seawater; Tungsten; Catalytic current, Preconcentration 218(1989)25
- Potentiometry; Titrimetry; Calcium; Magnesium 218(1989)47
- Flow system; Emission spectrometry; Boron; Plasmas; Inductively coupled 218(1989)69
- Mass spectrometry; Rare earth elements; Isotope-dilution 218(1989)265
- Ion exchange; At. abs. spectrometry; Copper speciation 219(1989)1
- I.r. spectrometry; Chlorobenzenesulphonic acid 219(1989)165
- Spectrophotometry; Flow system; Iron; Wine; Integrated retention 219(1989)231
- Flow system; Spectrophotometry; Fluoride 219(1989)329
- Ion exchange; Mercury; Preconcentration 219(1989)339
- Flow system; Spectrophotometry; Iron; Sandwich techniques 219(1989)345
- Conductometry; Total organic carbon; Volatile organic carbon; Denuder/electrolytic conductivity flow cell 220(1989)1
- H.p.l.c.; Titrimetry; Gravimetry; Anions; Orthogonal regression 220(1989)207
- Voltammetry; Autocatalytic effect; Nitrate; Second-sweep cyclic voltammetry, Mercury drop electrode 221(1989)131
- Amperometry; Chlorite; Continuous determination 226(1989)121
- Gas chromatography; Mass spectrometry; Atrazine; Herbicides; Ion-trap 228(1990)69
- Chemiluminescence; Hypochlorite; Luminol; Stopped-flow 228(1990)123
- Spectrophotometry; Flow system; Sulphate 228(1990)287
- Liquid chrom.; Bromopyridylazodiethylaminophenol; Chelation; Mineral sample; Transition metal 230(1990)23
- Polarography; Nitrite; Sausage; Single-sweep 230(1990)105



- Chemiluminescence; Ion exchange; Chlorine; Uranine; Tap, Amberlite anion-exchange resin, Chloramines, Immobilized, Xanthene dye 231(1990)7
- Flow system; Conductometry; Organic pollutants; Titanium dioxide; Film reactor; Immobilized 231(1990)13
- Spectrophotometry; Flow system; pH; Lake, Dye reagents 231(1990)21
- Flow system; Ion-sensitive field effect transistor; pH; Ammonium; Flow-through 231(1990)53
- Voltammetry; Cathodic stripping; Selenium; Sea water; Copper 231(1990)221
- Chemiluminescence; Formic acid; Sea water; Enzyme bioluminescence reaction 231(1990)299
- Humic substances; Forests; Soils; Fractionation: XAD-8 hydrophobic resin 232(1990)3
- N.m.r. spectrometry; Mass spectrometry; Humic substances; Soils; Fulvic acids; Isotope ratios; Amino acid analysis 232(1990)19
- Natural organic matter; Transmission electron microscopy 232(1990)107
- Voltammetry; Sea water; Copper; Complexation, Organic ligands, Speciation, Detection window 232(1990)149
- Liquid chrom.; Sea water; Copper; Phytoplankton bloom; Plankton ecosystem; Metal-organic interactions 232(1990)161
- Mass spectrometry; Sea water; Barium; Plasma; Isotope dilution; Inductively coupled 232(1990)323
- At. abs. spectrometry; Sea water; Manganese; Preconcentration; Polyazamacrocycles; Graphite furnace, Immobilized, Poly(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331
- Sea water; pH; Dye fibre-optic pH sensor; Phenol red, Amberlite resin 232(1990)337
- Spectrophotometry; Sea water; Nitrite; Azo dyes; Formation kinetics, *N*-1-Naphthylethylenediamine, Sulphanilamide 232(199)345
- Liquid chrom.; Vanadium; Air; Reversed-phase, 2-(8-Quinolylazo)-5-*N,N*-diethylaminophenol 233(1990)121
- Conductometry; Total organic carbon; Photocatalytic oxidation; Carbon dioxide 233(1990)171
- Liquid chrom.; Fluorimetry; Glyphosate; Aminomethylphosphonic acid; Pesticides; Post-column fluorogenic labelling 233(1990)311
- Flow system; Enzyme reactor; Pesticides; Immobilized acetylcholinesterase, Automated enzyme inhibition, Magnetic device 234(1990)113
- Flow system; Liquid chrom.; Spectrophotometry; Mass spectrometry; Extraction; Organic pollutants; Pesticides; Chlorinated phenoxy acids; On-line continuous-flow, Organophosphorus 234(1990)119
- Liquid chrom.; Fish; Organic pollutants; Cytotoxicity; In vitro 234(1990)193
- Flow system; Spectrophotometry; Boron; Preconcentration; Azomethine-H complex 234(1990)199
- Flow system; Plasma; Matrix matching; Salinity; Inductively coupled, Sodium 234(1990)207
- Liquid chrom.; Fluorimetry; Polycyclic aromatic hydrocarbons; Air; Reversed-phase 234(1990)269
- Spectrophotometry; Kinetic analysis; Nitrite; Food; Sausage, Potassium bromate, Thionine 234(1990)403
- Flow system; Spectrophotometry; Phosphorus; Photodiode detector, Simplex reagent optimization, Silicate interference, Molybdophosphate 234(1990)409
- Gas chromatography; Methylmercury; Sea water; Plasma; Microwave-induced plasma detection, Headspace, Dithiocarbamate resin preconcentration, Speciation 234(1990)417
- Flow system; Polarography; Nitrate; Uranyl ion 234(1990)475
- Liquid chrom.; Amperometry; Spectrophotometry; Copper; Iron; Biological materials; Extraction; Cupferron derivatization 235(1990)279
- Voltammetry; Copper; Speciation; Computer simulation; Conditional stability constant, Cathodic stripping, Sea water, Estuarine water, Freshwater, Complexation 235(1990)287
- Flow system; Spectrophotometry; Kinetic analysis; Manganese; Stopped-flow method, Gradient calibration 235(1990)323
- Liquid chrom.; At. abs. spectrometry; Mercury; Speciation; Preconcentration; Waste waters, Cold vapour, Microcolumn 235(1990)399
- Liquid chrom.; Solid-phase extraction; Toxicity; Industrial wastewater effluents, Toxicity reduction, Fractionation 236(1990)131
- Gas chromatography; Mass spectrometry; Extraction; Herbicides; Solid-phase extraction, Well water 236(1990)141
- Gas chromatography; Liquid chrom.; Extraction; Solid-phase extraction, Membrane, Filtration, Pesticides, Polychlorinated biphenyls, Phthalates 236(1990)157
- Flow system; Amperometry; Microwave digestion; Phosphorus 236(1990)345
- Activ. analysis; Chromium; Fulvic acids; Gamma counting 236(1990)357
- Liquid chrom.; Thiols; Dithiobis(nitropyridine) derivatization, Phthalaldehyde derivatization, Tributylphosphine, Sep-Pak cartridge extraction 236(1990)363
- At. abs. spectrometry; Mercury; Sample digestion, Cold vapour 236(1990)377
- At. abs. spectrometry; Environmental samples; Lead; Cadmium; Copper; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391
- At. abs. spectrometry; Vanadium; Electrothermal atomization, Hot injection, Graphite tube preconcentration, Magnesium nitrate matrix modifier 236(1990)475
- Activ. analysis; Gold; Gamma spectrometry; Extraction; Tributylphosphate, Prospecting, Solid extract 236(1990)483
- Gas chromatography; Review; Trace organic compounds; Preconcentration; Liquid-liquid extraction, Solid sorbents, Headspace techniques, Gas extraction, Volatile compounds 237(1990)1

- Liquid chrom.; Amperometry; Chloramines; Glassy carbon electrode 237(1989)149
- At. abs. spectrometry; Hydride generation; Lead; Fish; Wine; Vegetable; Foods; Potassium dichromate 237(1990)181
- Gas chromatography; Carboxylic acids; Nitrogen-selective detection, 2-Nitrophenylhydrazides 237(1990)215
- Fluorimetry; Nitro compounds; Explosives; Trinitrotoluene; Dinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265
- Chromatography; Ion exchange; Chemiluminescence; Trace metals; Multi-element detection; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291
- Ion exchange; Chromatography; Inorganic anions; Conductivity; Cu(II)-containing poly(3-methylthiophene) electrode, Single column 237(1990)317
- Potentiometry; Ion-selective electrodes; Fluoride; Complementary metal oxide semiconductor device, Automated monitor, Battery operated 237(1990)345
- Voltammetry; Trace elements; Sea water; Lake water; In situ measurements, Copper, Lead, Cadmium, Zinc 237(1990)429
- Spectrophotometry; Flow system; Aluminium; Pyrocatechol violet, Field monitor 238(1990)177
- Flow system; Phosphorus; Nitrogen; Process analysis; Waste-water treatment plant, Biological removal 238(1990)191
- Laser Doppler anemometry; Process analysis; Mixers; Jet mixing; Petroleum pipelines; Crude oil 238(1990)251
- Ion exchange; At. abs. spectrometry; Chromium; Preconcentration 238(1990)273
- At. abs. spectrometry; Preconcentration; Nickel; Cellulose ion exchangers, Cellex CM, Graphite furnace 238(1990)285
- Fluorimetry; Uranium; Geological samples; Time-resolved laser-induced, Complexing media, Mineral phase 238(1990)291
- Voltammetry; Cyclic voltammetry; Adsorptive stripping; Azinphos-methyl; Guthion 238(1990)383
- Amperometry; Enzyme electrode; Phosphate; Hydrogen peroxide, Eutrophication 239(1990)1
- Fluorimetry; Sea water; Polycyclic aromatic hydrocarbons; Pulsed-laser, fibre-optic-based system, Decay times, Time-resolved 239(1990)45
- Spectrophotometry; Flow system; Silicate; Rhodamine B 239(1990)151
- Flow system; Chemiluminescence; Surfactants; Sea water; Nonidet AT 85, Rhodamine B sensitizer 239(1990)189
- Liquid chrom.; Nitrite; Nitrate; Sea water; Venice lagoon, Ion interaction reversed-phase 239(1990)203
- D.c. polarography; Diff. pulse polarography; Copper; Aminomethoxypropane; Dimethylaminoethanol; Boiler water; Amine complexes, Reduction 239(1990)291
- Spectrophotometry; Uranium; Ion exchange, Arsenazo III 239(1990)321
- Diff. pulse voltammetry; Iron; Aluminium; Carbon paste electrodes; Preconcentration; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137
- At. abs. spectrometry; Nickel; Preconcentration; Extraction; Graphite furnace, Dithiocarbamate complex, Xylene 242(1991)209
- Spectrophotometry; Nitrite; 3-Nitroaniline 242(1991)225
- Fluorimetry; Aluminium; Eriochrome Red B, Hexamethylenetetramine 243(1991)121
- Gas chromatography; Mass spectrometry; Pesticides; 2,2-Dimethoxypropane 244(1991)9
- Spectrophotometry; Phosphorus; Long capillary cell detector 244(1991)63
- Flow system; Spectrophotometry; Sulphate; In-line preconcentration, Anion-exchange resin, Methylthymol blue-barium complexation 244(1990)109
- Cyclic voltammetry; pH sensor; Coated-wire electrode; Chemically modified electrode, Poly(4,4'-diaminobiphenyl) 244(1991)165
- Diff. pulse voltammetry; Molybdenum; Plant materials; Nitrate, 8-Hydroxyquinoline 244(1991)193
- At. abs. spectrometry; Sea water; Extraction; Separating funnels; Fluorinated ethylene-propylene, Dithiocarbamate-Freon-TF-extraction 245(1991)21
- Mass spectrometry; Plasmas; Isotope dilution; Sea water; Uranium; Marine sediment pore waters 245(1991)83
- Spectrophotometry; Flow system; Chloride; Bromide; Mercury(II) and silver thiocyanate minicolumns 245(1991)115
- Flow system; Conductometry; Gas diffusion; Nitrogen; Ammonia, Nitrate, Nitrite 245(1991)183
- Cyclic voltammetry; Chlorine; Microelectrodes; Platinum microdisc, Gold microdisc and microband 246(1991)267
- At. abs. spectrometry; Antimony; Extraction; Lactic acid complex, Malachite Green ion pair, Graphite furnace 247(1991)7
- At. abs. spectrometry; Arsenic; Extraction; Steels; Graphite furnace, Arsenomolybdic acid 247(1991)13
- Spectrophotometry; Iron; Sea water; Ferrozine, Sep-Pak cartridge 247(1991)125
- Voltammetry; Nitrite; Vitamin B<sub>12</sub> 248(1991)109
- Flow system; Emission spectrom.; Plasmas; Preconcentration; Sea water; Trace metals; Urine; Inductively coupled, Chelating resin 248(1991)241
- Potentiometry; Chloride; Ion-selective electrodes; Nitrate; Remote analysis station, Coated-wire 248(1991)285
- Amperometry; Biosensors; Chloroplast membranes; Phytotoxicity; Thylakoid membranes; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55
- Voltammetry; Cadmium; Iridium microelectrode; Lead; Trace metals; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419
- Diff. pulse voltammetry; Copper; Gold; Reactor moderator water; Silver; Mercury 249(1991)447
- Chemiluminescence; Flow system; Manganese; Sea water;  $\delta$ -Hydroxyquinoline concentration, 7,7,8,8-Tetracyanoquinodimethane 249(1991)469

Flow system; Spectrophotometry; Turbidimetry; Plant materials; Sulphur; Two-line manifold 249(1991)479

Spectrophotometry; Calcium; Magnesium; PAR complexes 249(1991)513

Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Copper; Mercury; Preconcentration; Trace metals; Zinc; Poly(acrylamidoxime) resin 249(1991)533

Gas chromatography; Helium-3; Sea water; Sulphur hexafluoride; Tracers; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

Voltammetry; Sea water; Trace elements; Adsorptive deposition, Cathodic stripping 250(1991)265

### Water-steam cycles

Flow system; Spectrophotometry; Amperometry; Potentiometry; Power plants; Process analysis; pH; Ion-selective electrodes; Control parameters 234(1990)167

### Wave-guide capillary cell

Flow system; Spectrophotometry; Copper 212(1988)245

### Wheat

Polarography; H.p.Lc.; Grapes; Sulphur residues; Sampled d.c., Differential pulse 207(1988)305

### Whole blood

Amperometry; Biosensor; Salicylate 224(1989)39

Kinetic analysis; Spectrophotometry; Haemoglobin; Methaemoglobin 224(1989)351

Amperometry; Alkaline phosphatase; Bovine liver; Test strip; Theophylline 229(1990)57

### Whole saliva

Chemiluminescence; Immunoassay; Progesterone; Microtitre plate 227(1989)119

### Wines

Flow system; Chemiluminescence; Sulphur dioxide; Young white 214(1988)429

Anod. stripping voltammetry; Heavy metals; Mercury micro-electrodes, Differential-pulse 219(1989)9

Spectrophotometry; Flow system; Iron; Waters; Integrated retention 219(1989)231

Flow system; Biosensor; Fibre-optic; Fruit juice; Glucose 225(1989)293

Flow system; Carbon dioxide; Sulphur dioxide; Gas-diffusion 225(1989)443

At. abs. spectrometry; Hydride generation; Lead; Fish; Waters; Vegetable; Foods; Potassium dichromate 237(1990)181

Liquid chrom.; Carboxylic acids; Optimization; Derivatization 242(1990)25

Amperometry; Enzyme electrodes; Lactate; Malate; Malate dehydrogenase, NADH oxidase 245(1991)145

Spectrophotometry; Flow system; Enzyme reactor; Malic acid; Stopped-flow, Malate dehydrogenase, Malolactic fermentation 247(1991)61

### Wood

Spectrophotometry; Turbidimetry; Lignin; Proteins 235(1990)299

Titrimetry; Boron preservatives; Collaborative studies; Statistical analysis; Quality control; Boric acid 236(1990)423

### Wood preservatives

Gas chromatography; At. abs. spectrometry; Hydride generation; Tributyltin oxide; Urine 246(1991)351

## X

### X-ray absorption fine-structure

Computer program; Structure determination; Atomic local structure 210(1988)143

### X-ray photoelectron spectroscopy

Mass spectrometry; Immobilization; Phospholipid; Time-of-flight, Secondary-ion 225(1989)369

Raman spectrometry; Auger electron spectroscopy; Tin; Antitarnish film; Ethylenediaminetetra(methylidene phosphonic acid) 238(1990)399

### Xanthine

Fluorimetry; Semiconductor laser; Xanthine oxidase; Near-infrared 208(1988)325

Amperometry; Hypoxanthine; Enzyme electrodes; Uric acid, Xanthine oxidase, Carbon paste 242(1991)267

### Xanthine oxidase

Fluorimetry; Semiconductor laser; Xanthine; Near-infrared 208(1988)325

Polarography; Biosensor; Fish meat; Hypoxanthine 221(1989)215

Amperometry; pH; Superoxide dismutase 222(1989)247

Chemiluminescence; Iron chelate; Luminol 227(1989)57

### Xylenol orange

Flow system; Spectrophotometry; Aluminium; Zinc; Light emitting diode 230(1990)125

### Xylol

I.r. spectrometry; Paint solvents; Fourier transform, Butan-1-ol, Butyl acetate, Azeotropic mixtures 242(1991)133

### Xylose

Flow system; Amperometry; Enzyme reactor; Xylulose 213(1988)139

### Xylulose

Flow system; Amperometry; Enzyme reactor; Xylose 213(1988)139

Flow system; Liquid chrom.; Enzyme reactor; Modified electrode; Recirculating flow 225(1989)263

# Y

## Yeast cell walls

Amperometry; Biosensors; Enzyme reactor; Foods; Sucrose; Invertase, Mutarotation, Phosphate 247(1991)83

## Yeast cells

Liquid chrom.; Spectrophotometry; Ergosterol 225(1989)129

Flow system; Fluorimetry; Cell permeabilization; Formate dehydrogenase activity; Intracellular enzyme activity; *Candida boidinii* 248(1991)371

## Yeasts

Potentiometry; Voltammetry; Flow system; Fluorimetry; Bioreactors; High-performance, On-line sensors 213(1988)199

Amperometry; Alcohol dehydrogenase; Bioelectrode; Ethanol; NADH 221(1989)43

Fluorimetry; Microscopy; Mitochondrial membrane 227(1989)227

## Yoghurt

Process analysis; Automation; Robots; Biological oxygen demand; Acidity 238(1990)71

## Ytterbium

Diff. pulse voltammetry; Europium; Rare earths; Mercury thin-film electrodes; Nafion coating; Ion-exchange preconcentration 244(1991)29

## Yttrium

Emission spectrometry; Barium; Copper; Superconductor; Inductively coupled plasma 221(1989)167

Fluorimetry; Diphacinone; Europium; Rare earth oxides; Fluorescence enhancement, Ammonia 231(1990)295

# Z

## Zeolite

I.r. spectrometry; Diffuse reflectance; Glass-covered samples; Hydrogen spillover; Fourier transform, Water formation 240(1991)363

## Zeolite-containing carbon-paste electrodes

Voltammetry; Ion exchange; Mercury; Silver; Preconcentration 207(1988)95

## Zidovudine

Fluorimetry 217(1989)363

Flow system; Liquid chrom.; Extraction; Caffeine; Beverages; Food; Urine 239(1990)171

## Zinc

Anod. stripping voltammetry; Copper; Intermetallic compounds 202(1987)151

Fluorimetry; Lubricating oils; Waters 202(1987)207

Flow system; At. abs. spectrometry; Plants; Flame 206(1988)253

Potentiometry; Flow system; Cadmium; Lead; Nafion-modified carbon fibre electrodes; Urine; Computerized flow, Stripping 207(1988)17

Cadmium; Extraction 207(1988)367

Electrotherm. atomization; At. abs. spectrometry; Copper; Sea water; Polymer-supported 1,4,8,11-tetraazacyclotetradecane 209(1988)249

Electrotherm. atomization; At. abs. spectrometry; Bismuth metal; Copper; Extraction; Thiocyanate 209(1988)281

Flow system; At. abs. spectrometry; Biological tissues; Cadmium; Microwave digestion 214(1988)421

Activ. analysis; Thallium; Proton 220(1989)93

(Chlorophenyl)methylaroylpyrazolone; Solvent extraction; Tri-octylphosphine oxide 226(1989)187

Fluorimetry; Food; Micelle 227(1989)219

Polarography; Cadmium; Polyacrylic acid; Polymethacrylic acid 229(1990)93

Flow system; Spectrophotometry; Aluminium; Xylenol orange; Light emitting diode 230(1990)125

At. abs. spectrometry; Extraction; Metal ions; Cobalt; Nickel; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

Chromatography; Spectrophotometry; Copper; Cadmium; Preconcentration; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393

At. abs. spectrometry; Waters; Environmental samples; Lead; Cadmium; Copper; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

Polarography; Hair; Lead; Copper; UV irradiation, Polarographic adsorptive complex waves 238(1990)367

Flow system; Diode-array detection; Nickel; Pyridylazonaphthol 241(1990)153

At. abs. spectrometry; Emulsification; Manganese; Organic solvents; Triton X-100, Bis-2-ethylhexylphosphoric acid 246(1991)347

At. abs. spectrometry; Extraction; Nickel; Bis(4-acylpyrazol-5-one) derivative extractants, Liquid-liquid, Polymethylene chain length, Steric effects, Tri-*n*-octylphosphine oxide synergist 249(1991)525

Activ. analysis; At. abs. spectrometry; Cadmium; Cobalt; Copper; Mercury; Preconcentration; Trace metals; Waters; Poly(acrylamidoxime) resin 249(1991)533

## Zinc oxide

Extended x-ray absorption fine structure spectrometry; Copper oxide; Weighting factors 233(1990)229

## Zirconium

Spectrophotometry; Hafnium; Extraction; Dicyclohexyl-18-crown-6; Crown ether 245(1991)27

## Zirconium vanadophosphate

Ion exchange; Geological samples 235(1990)435

## Zone melting

Fluorimetry; Carbazole; Anthracene; Anthraquinones; Biphenyl medium, Synchronous 236(1990)505

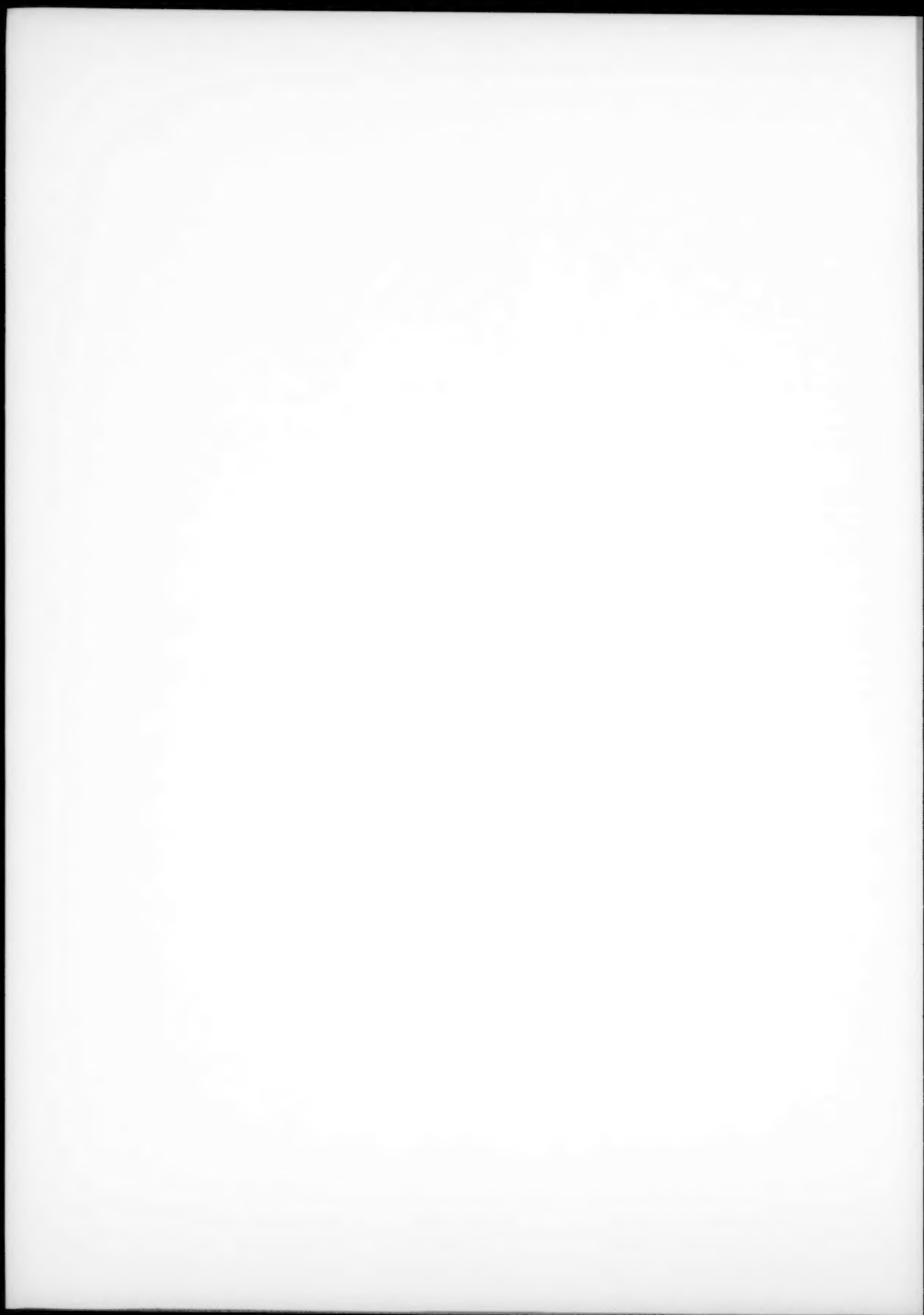
## Zone sampling

Flow system; Solvent extraction 226(1989)255





**TECHNIQUE INDEX**  
**VOLUMES 201-250**



# A

## A.c. polarography

Methotrexate; Serum; Phase-selective 233(1990)281

## Activation analysis

Method of moments; Multiplet deconvolution; Gamma-ray 203(1987)43

Ion exchange; Serum; Trace metals 211(1988)231

Ion exchange; Rare earth elements; Uranium 219(1989)313

Environmental materials; Trace elements; Instrumental neutron 219(1989)317

Thallium; Zinc metal; Proton 220(1989)93

Lead; Preconcentration; Graphite furnace, Biological matrix 224(1989)139

Chromium; Fulvic acid; Waters; Gamma counting 236(1990)357

Algorithms; Calibration, Determination 236(1990)417

Gold; Waters; Gamma spectrometry; Extraction; Tributylphosphate, Prospecting, Solid extract 236(1990)483

Mass spectrometry; Emission spectrometry; Rare earth elements; Rocks; Plasmas; Isotope dilution, Inductively coupled 236(1990)487

Rare earth elements; Biological samples; Preconcentration; Substoichiometric precipitation, Calcium oxalate 239(1990)115

Niobium; Titanium; Proton activation 247(1991)133

Geological materials; Gold; Microwave sublimation; Ores; Helium-oxygen plasma 248(1991)579

At. abs. spectrometry; Cadmium; Cobalt; Copper; Mercury; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

## Amperometry

Enzyme electrodes; Glucose 201(1987)281

Enzyme electrodes; Lactate; Mathematical treatment 201(1987)305

Coulometry; Titrimetry; Spectrophotometry; Cell design 202(1987)75

Flow system; Carbohydrate; Enzyme reactor; Starch; Immobilized glucoamylase 204(1988)43

H.p.l.c.; Anion monitoring; Differential double-layer capacitance; Electrosorptive, Mercury electrodes 204(1988)95

H.p.l.c.; Tributyltin oxide; Polarographic studies 204(1988)151

Conductometry; Carbohydrates; Pulsed 204(1988)323

Flow system; Enzyme reactors; Myo-inositol 206(1988)49

Flow system; Residual chlorine 207(1988)59

H.p.l.c.; Fluorouracil; Pharmaceuticals; Serum; Anodic 207(1988)183

Flow system; Cholesterol; Enzyme reactor; Serum 207(1988)319

Flow system; Coulometry; Glycols; Anodic, Kinetics, Nickel electrode 208(1988)247

Catechol electrode; Spinach leaves, Oxygen electrode 208(1988)287

Flow system; Ascorbate; Cucumber juice as carrier 208(1988)291

Bienzyme electrode; Carnitine 208(1988)295

H.p.l.c.; Hydroquinone; Metol; Photographic developer; Reversed-phase, Ion-pair 208(1988)337

H.p.l.c.; Aflatoxins; Peanut butter 208(1988)343

Flow system; Pesticides; Fenthion; Fenitrothion 209(1988)205

Hydroxybutyrate; Immobilized 3-hydroxybutyrate dehydrogenase 209(1988)223

Flow system; Glucose; Lactic acid; Plasma; Computer-controlled 209(1988)231

H.p.l.c.; Amino acids; Enzyme electrodes; Detectors 209(1988)259

Flow system; Superoxide dismutase activity; Oxygen probe 211(1988)195

Potentiometry; Fermentation processes; Microbiological sensors; Review 213(1988)69

Flow system; Enzyme electrode; Enzyme reactor; Lactate 213(1988)91

Flow system; Electrochemical biosensors; Milk components; Metabolites 213(1988)101

Flow system; Enzyme reactor; Xylose; Xylulose 213(1988)139

Flow system; Ion exchange; Acetylcholine; Choline; Enzyme reactor; Lipids 214(1988)173

Flow system; Enzyme reactor; Glutathione 214(1988)415

H.p.l.c.; Sulphur-containing pesticides; Pulsed, Reversed-phase 215(1988)1

H.p.l.c.; Aldehydes; Ketones; Photoelectrochemical detector; Mechanism, Alkyl, Aryl 215(1988)45

Microbial concentration; Reaction mechanism 215(1988)61

Flow system; Spectrophotometry; Review; Unstable reagents 216(1989)289

Flow system; Chemically sterilizable barrier; Fermentor monitoring; Glucose; Oxygen 216(1989)299

Flow system; Enzyme reactor; Oxalate; Immobilized oxalate oxidase 218(1989)1

Alcohol sensor; Membrane-bound alcohol dehydrogenase 218(1989)61

H.p.l.c.; Enzyme reactor; Nicotinamide coenzymes 218(1989)129

Galactose; Glucose biosensor 218(1989)137

Flow system; Bioelectrodes from plant tissue; Dopamine; Dual electrode 218(1989)281

Titrimetry; Silver; Square-wave 219(1989)37

Fatty acid sensor; Immobilized enzymes 220(1989)251

Ion exchange; Voltammetry; Nafion; Sensor; Low-conductivity solvent 221(1989)27

- Alcohol dehydrogenase; Bioelectrode; Ethanol; NADH; Yeast 221(1989)43
- Blood-glucose; Carbon-fibre; Glucose-oxidase; Stopped-flow dialysis 221(1989)205
- Hydroxybutyrate; Ketone body; Sensor; Dry-strip 221(1989)289
- Electron mediator; Fermentation; Glucose; Enzyme electrode 222(1989)75
- Immunoassay; Enzyme;  $\alpha$ -Fetoprotein; Immunocomplex; Biosensor 222(1989)235
- pH; Superoxide dismutase; Xanthine oxidase 222(1989)247
- Flow system; Fructose; Glucose isomerase; Immobilization 224(1989)31
- Biosensor; Salicylate; Whole blood 224(1989)39
- Flow system; Electrocatalysis; Redox gas; Chemically modified electrode 224(1989)305
- Flow system; Pharmaceutical preparation; Vitamin D 225(1989)247
- Flow system; Cell cultivation; Enzyme cartridge; Glucose; Lactate 225(1989)253
- Immunoassay; Insulin; Serum; Enzyme immunoelectrode 225(1989)283
- Chlorite; Water; Continuous determination 226(1989)121
- Faradaic transient; Concentration, Temperature, Chronoamperometry 226(1989)337
- Glycolate; Glycolate oxidase; Sensor; Mediator 228(1990)31
- Modified electrode; Film-coated electrode 228(1990)39
- Acetylcholine; Acetylcholinesterase; Choline; Choline oxidase; Sensor; Photocross-linkable polymer 228(1990)49
- Flow system; Copper 228(1990)117
- Ferrocene; Glucose; Glucose oxidase; Carbon-paste electrode 228(1990)251
- Glucose oxidase; Platinum microparticle; Polypyrrole 228(1990)311
- Flow system; Nitrophenol; Paraoxon; Parathion 228(1990)317
- Alkaline phosphatase; Bovine liver; Test strip; Theophylline; Whole blood 229(1990)57
- Voltammetry; Ascorbic acid; Multivitamin preparation; Composite electrode 229(1990)63
- Flow system; Conducting organic salt; Glucose; Sensor; Wall-jet cell 229(1990)83
- Liquid chrom.; Microbe; Tissue 229(1990)139
- Flow system; Thiol; Nickel oxide electrode 229(1990)191
- Chelating resin; Modified electrode; Preconcentration; Silver; Carbon paste electrode 229(1990)213
- Amylase; Carbohydrate; Lactose; Oligosaccharide dehydrogenase; Enzyme electrode 230(1990)75
- Aminoquinoline; Pyrolytic graphite electrode 230(1990)91
- Liquid chrom.; Vitamin B<sub>6</sub>; Carbon fibre electrode 230(1990)207
- Biosensors; Enzyme reactor; Choline; Acetylcholine; Immobilized, Hydrogen peroxide 231(1990)27
- Cyclic voltammetry; Diff. pulse voltammetry; Carbon electrodes; Biosensors; Ascorbic acid; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203
- Enzyme electrode; Lactate; Lactate dehydrogenase, Diaphorase, NADH, Hexacyanoferrate(II) 231(1990)309
- Formaldehyde; Enzyme reactor; Dehydrogenase, Hexacyanoferrate(III), NADH 233(1990)59
- Flow system; Penicillin; Pharmaceuticals; Expert system; Enzymatic hydrolysis; Validation program 233(1990)65
- Liquid chrom.; Enzyme reactor; Carbohydrates; Immobilized, Post-column derivatization 234(1990)13
- Flow system; Electrochemical detection; Chemically modified electrodes 234(1990)41
- Flow system; Spectrophotometry; Potentiometry; Power plants; Process analysis; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167
- Liquid chrom.; Spectrophotometry; Coulometry; Thienodiazepines; Pharmaceuticals 234(1990)175
- Flow system; Ethanol; Beverages; Gas-diffusion membrane; Enzyme reactor; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213
- Flow system; Kinetic analysis; Oxalate; Photosensitive compounds; Iron (III) 234(1990)227
- Flow system; Microorganisms; Microbiological sensor; Fungi; Bacteria; *Escherichia coli* 234(1990)247
- Flow system; Enzyme electrode; Dopamine; Norepinephrine; Plant tissue-based electrode, Zucchini-based electrode, Ascorbic acid interference elimination 234(1990)315
- Flow system; Enzyme electrode; Glucose; Blood; Mediator 234(1990)321
- Lactate; Enzyme electrode; Tetrathiafulvalene mediator; Carbon foil, Lactate oxidase 234(1990)459
- Liquid chrom.; Spectrophotometry; Copper; Iron; Waters; Biological materials; Extraction; Cupferron derivatization 235(1990)279
- Enzyme electrode; Glucose; Sucrose; Immobilized invertase, Beverages 236(1990)245
- Titrimetry; Polarography; Colloidal electrolytes; Dodecylquinolinium bromide; Potassium dichromate, Potassium hexacyanoferrate(III), Ammonium molybdate 236(1990)325
- Flow system; Microwave digestion; Phosphorus; Waters 236(1990)345
- Hydroxybutyrate; Blood; Plasma; Biosensor; Enzyme electrodes; Platinized carbon electrode, NADH 237(1990)99
- Enzyme electrode; Biosensor; Catechol; Eggplant; Biamperometric, Carbon paste electrode, Polyphenol oxidases 237(1990)107
- Liquid chrom.; Chloramines; Waters; Glassy carbon electrode 237(1990)149
- Flow system; Glucose; Blood; Enzyme reactor; Chemically modified electrode, Segmented sample injection, On-line dialysis, Haematocrit 237(1990)405
- Kinetic analysis; Ion-selective electrodes; Oxygen; Membrane electrode, Transient response 237(1990)413

- Cyclic voltammetry; Pulp bleaching; Paper; Chlorine dioxide; Process analysis; In-line monitoring 238(1990)223
- Flow system; Phosphate; Enzyme reactor; Substrate recycling; Co-immobilized purine nucleoside phosphorylase-xanthine oxidase, Co-immobilized purine nucleoside phosphorylase-xanthine oxidase-alkaline phosphatase 238(1990)339
- Flow system; Sulphate; Calibration; Indirect determination 238(1990)431
- Enzyme electrode; Phosphate; Waters; Hydrogen peroxide, Eutrophication 239(1990)1
- Biosensor; Hydrogen peroxide; Enzyme electrode; Human erythrocytes, Catalase activity 239(1990)19
- Enzyme electrodes; Glucose; Biosensors; Ugi reaction, Immobilization, Cyclohexyl cyanide, Glutaraldehyde 239(1990)263
- Enzyme electrodes; Lactate; Pyruvate; Cholesterol; Uric acid; Oxidase-peroxidase bilayer-modified, Hydrogen peroxide 242(1991)85
- Flow system; Glucose; Foods; Soft drinks; Enzyme electrodes; Hydrogen peroxide, Membrane 242(1991)91
- Cyclic voltammetry; Iron(II) complexes; Ethanedial; Glyoxal; Carbon paste electrodes; Redox mediators 242(1991)241
- Hypoxanthine; Xanthine; Enzyme electrodes; Uric acid, Xanthine oxidase, Carbon paste 242(1991)267
- Glucose; Enzyme electrodes; Glucose oxidase, Needle-type microsensor 242(1991)275
- Enzyme electrodes; Amines; Plant growth regulators; Carbon paste-pea seedling sensor, Diamine oxidase, Hydrogen peroxide 243(1991)1
- Enzyme electrodes; Glutamate; L-Glutamate oxidase, *Streptomyces platensis* 243(1991)9
- Enzyme electrodes; Preconcentration; Biocatalytic accumulation; Glucose 243(1991)17
- Enzyme electrodes; Lactate; Gamma irradiation; Poly(vinyl alcohol); Lactate oxidase, Platinized graphite, Hydrogen peroxide 243(1991)23
- Flow system; Hydrogen ion; Hydroxyl ion; Ion-selective electrodes; Plasticised PVC membrane electrode 243(1991)55
- Flow system; Chemically modified electrodes; Carbohydrates; Nickel, Glassy carbon 243(1991)61
- Ascorbic acid; Foods; Printed strip electrochemical sensor; Graphite, Tetracyanoquinodimethane modifier 243(1991)173
- Sulphydryl compounds; Chemically modified electrodes; Rotating graphite electrodes, Electrocatalytic oxidation 243(1991)287
- Biosensors; Enzyme electrodes; Hypoxanthine; Fish; Foods; Hydroxymethylferrocene electron-transfer mediator, Xanthine oxidase 244(1991)161
- Cyclic voltammetry; Flow system; Liquid chrom.; Carbohydrates; Amino acids; Constant-potential amperometric detection, Metallic electrodes 244(1991)169
- Enzyme electrodes; Aspartate aminotransferase; Alanine aminotransferase; Serum; Glutamate oxidase, Hydrogen peroxide 245(1991)57
- Aspartate electrode; Enzyme electrode 245(1991)63
- Enzyme electrodes; Hydrogen peroxide; Organic solvents, Horseradish peroxidase 245(1991)133
- Enzyme electrodes; Lactate; Malate; Wines; Malate dehydrogenase, NADH oxidase 245(1991)145
- Enzyme electrodes; Lactate; Saliva; Lactate oxidase, Hydrogen peroxide 245(1991)151
- Flow system; Biosensors; Enzyme electrodes; Glucose; Glucose dehydrogenase, Benzene-1,4-dicarboxamide *N,N*-bis(benzophenoxazinyl) derivative 246(1991)283
- Cyclic voltammetry; Flow system; Glassy carbon electrodes; Microelectrode arrays; TTF-TCNQ, Hydroquinone, Dopamine, Ascorbic acid 246(1991)315
- Flow system; Diffusion coefficient 246(1991)341
- Flow system; Iodide; Pneumatoamperometric detection, Oxidation, Permanganate auxiliary oxidant 247(1991)73
- Biosensors; Enzyme reactor; Foods; Sucrose; Yeast cell walls; Invertase, Mutarotation, Phosphate 247(1991)83
- Dimethyl sulphoxide; DMSO; Electrocatalysis; Lead dioxide; Bismuth-doped lead dioxide thin films 248(1991)85
- Liquid chrom.; Flow system; Cyclic voltammetry; Carbohydrates; Sugars; Nickel-catalysed glassy carbon electrode 248(1991)117
- Cyclic voltammetry; Enzyme electrodes; Glucose; Viologens; Electron-transfer mediators, Carbon paste electrode 248(1991)155
- Flow system; Enzyme reactor; Nicotinamide coenzymes; Immobilized, Amplification, Substrate recycling, Hydrogen peroxide 248(1991)345
- Acetaminophen; Biosensor; Blood; Paracetamol; Dry-strip, Screen-printed 248(1991)361
- Flow system; Air; Alcohols; Enzyme reactor; Gas detection; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379
- Flow system; Potentiometry; Air; Chlorine; Gas detection; Hydrogen chloride; Continuous monitoring 248(1991)391
- Glucose; Biosensors; Enzyme electrodes; Glucose dehydrogenase, Glucose oxidase 249(1991)43
- Biosensors; Chloroplast membranes; Phytotoxicity; Thylakoid membranes; Waters; Herbicides, Heavy metals, Photoelectrochemical cell 249(1991)55
- Kinetic analysis; Biosensors; Electron transfer; Quinoproteins; Methylamine dehydrogenase; Amicyanin, Cytochrome *c* 249(1991)235
- Cyclic voltammetry; Electropolymerization; Glassy carbon electrodes; Polymer-coated electrodes; Resole prepolymer mixtures; Continuous-flow sensing 249(1991)395
- Flow system; Enzyme reactor; Glucose; Double injection, Oxygen-permeable reaction coil, Stopped-flow 249(1991)451
- Flow system; Voltammetry; Nafion-coated electrodes; Pharmaceuticals; Promethazine; Cations 249(1991)489
- Flow system; Biosensors; Chemically modified electrodes; Enzyme reactor; Immobilized, Selective detection 250(1991)203



Immunoassay; Biosensors; Enzyme electrodes; Fibre-optic sensors; Immunosensors; Bioaffinity, Biocatalytic 250(1991)249

### Anodic stripping voltammetry

Copper; Zinc; Intermetallic compounds 202(1987)151

Bismuth; Sea water; Square-wave, Glassy-carbon rotating-disk electrode 204(1988)161

Cadmium; Cobalt; Copper; Lead; Nickel; Waters; Differential-pulse 204(1988)179

Voltammetry; Metal alloys; Trace metals; Second-harmonic phase-selective a.c. 204(1988)189

Titrimetry; Equivalence point 206(1988)153

Cadmium; Extraction; Indium; Lead; Thallium; Diethyldithiocarbamates 208(1988)219

Ion exchange; Speciation; Toxicity; Waters; Physicochemical, Metal to *Chlorella pyrenoidosa* 209(1988)97

Gold 209(1988)193

Copper; Fulvic acid equilibria; Labile metal fraction; Lead; Sampled-d.c. 211(1988)141

Chemicals; Silver; Nafion/crown ether film electrode 212(1988)341

Alkyllead species; Separation, Coprecipitation, Differential-pulse 212(1988)349

Diff. pulse polarography; Flow system; Trace metals; Waters; Differential-pulse 215(1988)13

Cadmium; Copper; Internal standard; Lead; Waters; High-accuracy, Differential-pulse, Indium 215(1988)21

Heavy metals; Wine; Mercury microelectrodes, Differential-pulse 219(1989)9

Heavy metals; Rain; Seawater; Mercury microelectrodes, Differential-pulse 219(1989)19

Cadmium; Lead; Square-wave, Mercury-plated reticulated vitreous carbon electrode 219(1989)153

Copper; Lead; Potentiometric stripping analysis 222(1989)263  
 Lability; Mercury; Metal complex; Mercury film electrode 228(1990)327

Diff. pulse voltammetry; Ion exchange; Lead; Copper 231(1990)133

Voltammetry; Platinum-iridium electrode; Mercury film, Cyclic voltammetry 234(1990)275

Diff. pulse voltammetry; Cadmium; Lead; Mercury-poly(4-vinylpyridine) coating, Glassy carbon electrode 234(1990)479

Polarography; Mercury microelectrodes; Non-conducting polymer coatings, Poly-N-ethyltyramine, Dithiocarbamate ligands 235(1990)451

Copper; Haemodialysis water 236(1990)449

Voltammetry; Electrochemical cell; Lead; Cadmium; Epinephrine; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

Diff. pulse voltammetry; Lead; Urine; Fumed silica 237(1990)177

Diff. pulse voltammetry; Mercury electrodes; Polymer modified electrodes; Copper; Lead; Cadmium 238(1990)345

Surfactants; Extraction; Anionic, Ethylenediaminecopper extractant 244(1991)197

Copper-mercury film electrode; Lead 246(1991)309

Copper complexes; Fulvic acids; Humic acids; 1-(2-Pyridylazo)-2-naphthol, 8-Quinolol 248(1991)95

Cadmium; Lead; Cylindrical graphite fibre microelectrodes, In situ plated mercury films, Square-wave 249(1991)433

### Atomic absorption spectrometry

Principal components; Electrotherm. atomization; Milk; Trace metals; Cow 201(1987)253

Electrotherm. atomization; Antimony; Semiconductor silicon; Solid samples 201(1987)311

Flow system; Extraction; Indium; Flame 201(1987)325

Hydride generation; Biological materials; Selenium 201(1987)331

Electrotherm. atomization; Copper; Coprecipitation preconcentration; Manganese; Waters 202(1987)223

Experimental design; Glass ceramics; Titanium; Nitrous oxide/acetylene 203(1987)55

Electrotherm. atomization; Extraction; Palladium; Platinum; Rocks; Soils; Iodo complexes 204(1988)333

Flow system; Plants; Zinc; Flame 206(1988)253

Emission spectrometry; Molybdenum; Organometallic compounds; Flame 207(1988)259

Electrotherm. atomization; Extraction; Gold; Silver; Thallium; Urine; Flame, Iodide complexes 207(1988)283

Electrotherm. atomization; Sea water; Tetrahydroborate reductive precipitation; Trace elements; Preconcentration 207(1988)291

Spectrophotometry; Extraction; Sulphide; Fluoride; Phosphate 208(1988)313

Hydride generation; Tellurium; Masking of interference 208(1988)347

Electrotherm. atomization; Phosphorus; Plant materials; Tea leaves 208(1988)351

Mercury; Soils; Digestion procedures, Cold-vapour 209(1988)147

Electrotherm. atomization; Copper; Sea water; Zinc; Polymer-supported 1,4,8,11-tetraazacyclotetradecane 209(1988)249

Electrotherm. atomization; Bismuth metal; Copper; Extraction; Zinc; Thiocyanate 209(1988)281

Electrotherm. atomization; Calcium carbonate scale; Carbonate rocks; Copper; Solid samples 209(1988)287

Ion exchange; Electrotherm. atomization; Heavy metals; Seawater; Pre-concentration, Chelex-100, pH and salts 211(1988)257

Ion exchange; Electrotherm. atomization; Heavy metals; Seawater; Pre-concentration, Chelex-100, Optimization, Plate simulation method 211(1988)271

Platinum metal; Trace metals; Flame, Pulse aspiration 211(1988)311

Ion exchange; Cobalt; Copper; Manganese; Nickel; Tellurium metal 212(1988)191

Flow system; Ion exchange; Emission spectrometry; Extraction; Gas diffusion; On-line separation; Preconcentration 214 (1988)41

Flow system; Emission spectrometry; Review 214(1988)57

Flow system; Lead preconcentration; Waters; Flame 214 (1988)329

Flow system; Calcium; Interference removal; Flame 214 (1988)339

Flow system; Biological tissues; Cadmium; Microwave digestion; Zinc 214(1988)421

Ion exchange; Spectrophotometry; Manganese metal; Trace elements 215(1988)111

Flow system; Cationic surfactants; Extraction; Waters; Indirect, With tetrathiocyanatocobaltate 215(1988)233

Flow system; Anaesthetics; Pharmaceuticals; Indirect, Precipitation 215(1988)241

Ion exchange; Spectrophotometry; Manganese metal; Trace elements 215(1988)317

Flow system; Extraction; Preconcentration; C-18 bonded silica 216(1989)243

Extraction; Metal complexes; Ore; Palladium; Ammonium pyrrolidine dithiocarbamate, Methyl isobutyl ketone 217 (1989)165

Electrotherm. atomization; Beryllium; Urine; Matrix modifier 217(1989)271

Electrotherm. atomization; Cobalt; Iron; Nickel; Molybdenum tube 217(1989)377

Electrotherm. atomization; Copper; Environmental samples; Extraction; Lead 218(1989)173

Sediments; Trace metals; Nitric acid digestion 218(1989)335

Extraction; Vanadium; Indirect 218(1989)341

Ion exchange; Copper speciation; Waters 219(1989)1

Electrotherm. atomization; Foods; Molybdenum 219(1989)79

Electrotherm. atomization; Phosphorus; Platform 219(1989)127

Electrotherm. atomization; Silicon; Matrix modifiers 220 (1989)83

Principal components; Electrotherm. atomization; Mussels; Trace elements; Polluted and unpolluted 220(1989)135

Biological samples; Mercury; Microwave dissolution; Gold amalgamation, Cold-vapour 220(1989)257

Electrotherm. atomization; Microwave dissolution; Silicate materials 220(1989)263

Flow system; Iminodiacetate chelate resin; Metal ion; Microcolumn, On-line 221(1989)65

Hydride generation; Lead; Nitroso-R salt 221(1989)85

Mercury; Preconcentration; Seawater; Platinum-lined graphite furnace 225(1989)175

Aluminum; Fluoride; Matrix modifier; Graphite furnace 225 (1989)233

Gallium trichloride; Trace elements; Volatilization; Electrothermal atomization 226(1989)193

Mercury complex; Tetraethylthiuram disulphide; Tetramethylene dithiocarbamate; Graphite furnace 226(1989)203

Continuum-source; Inductively coupled plasma, Photodiode array 227(1989)331

Gas chromatography; Alkyllead; Grass; Speciation; Tree leaves 228(1990)77

Liquid chrom.; Graphite furnace 228(1990)129

Germanium; Hydride generation; Meteorite 228(1990)139

Emission spectrometry; Mass spectrometry; Gold; Platinum; Solvent extraction; Zeeman effect, Graphite furnace 229 (1990)227

Cellulose sorbent; Copper; Preconcentration; Quinolinol 230 (1990)163

Hydride generation; Lead; Soils; Alloys; Oxalic acid-ammonium cerium(III) nitrate-potassium tetrahydroborate medium 231(1990)151

Gold; Palladium; Platinum; Rhodium; Silver; Selenium; Tellurium; Geological samples; Reductive coprecipitation; Graphite furnace, Mercury collector, Matrix modification 231 (1990)273

Cadmium; Blood; Electrothermal atomization, Aqueous standards, L'vov platform 231(1990)283

Milk; Molybdenum; Electrothermal atomization, Barium difluoride, Matrix modifier 231(1990)321

Extraction; Metal ions; Cobalt; Nickel; Zinc; Cadmium; Phosphine oxides; Liquid-liquid, 1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone 232(1990)293

Extraction; Heavy metals; Graphite furnace 232(1990)301

Ruthenium; Meteorites; Graphite furnace 232(1990)317

Waters; Sea water; Manganese; Preconcentration; Polyazamacrocycles; Graphite furnace, Immobilized, Poly(vinylbenzyltetraaza-1,4,8,11-cyclotetradecane) 232(1990)331

Cobalt; Preconcentration; Extraction; Liquid surfactant membranes; Graphite furnace, Liquid-liquid 232(1990)389

Hydride generation; pH; Selenium; Selenium hydride stripping; Acid dissociation 232(1990)405

Lead; Cadmium; Mineral acids 233(1990)165

Flow system; Liquid chrom.; Review; Detectors 234(1989)3

Indium; Flame, Graphite furnace, Hydride generation, Contaminants, Detection limits 234(1990)425

Flow system; Methadone; Pharmaceuticals 234(1990)433

Gold; Silver; Plasma; Graphite furnace, Zeeman effect background correction, Copper-gold-silver salt mixture, Rat, Anti-inflammatory 235(1990)393

Liquid chrom.; Mercury; Speciation; Waters; Preconcentration; Waste waters, Cold vapour, Microcolumn 235(1990)399

Flame; Iron; Nickel; Cobalt; Molybdenum; Catalysts; Petroleum; Microwave oven digestion, Slurry 235(1990)405

Mercury; Waters; Sample digestion, Cold vapour 236(1990)377

Iridium; Rhodium; Ruthenium; Platinum; Matrix extraction, Graphite furnace 236(1990)385

Waters; Environmental samples; Lead; Cadmium; Copper; Zinc; Evaporation; Preconcentration; Snow, Ice, Contamination 236(1990)391

Flow system; Chromium; Preconcentration; Poly(hydroxamic acid) resin 236(1990)469

Vanadium; Waters; Electrothermal atomization, Hot injection, Graphite tube preconcentration, Magnesium nitrate matrix modifier 236(1990)475

Cadmium; Electrothermal atomization, Molybdenum tube, Sulphur modifier, Interference, Atom formation processes 236(1990)479

Hydride generation; Lead; Fish; Waters; Wine; Vegetable; Foods; Potassium dichromate 237(1990)181

Hydride generation; Antimony; Arsenic; Selenium; Sodium tetrahydroborate 237(1990)189

Cobalt; Aluminium alloys; Steels; Preconcentration; Tetradecyldimethylbenzylammonium thiocyanate adsorbent, Naphthalene support, Nitroso-R salt 237(1990)201

Ion exchange; Chromium; Waters; Preconcentration 238(1990)273

Preconcentration; Nickel; Waters; Cellulose ion exchangers, Cellex CM, Graphite furnace 238(1990)285

Flow system; Microwave oven digestion; Solid samples; Sewage sludge; Flame, Manifold, Slurries 238(1990)417

Emission spectrometry; Electrotherm. atomization; Plasmas; Vanadium; Titanium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139

Tin; Rocks; Graphite furnace, Silicate 239(1990)145

Waters; Nickel; Preconcentration; Extraction; Graphite furnace, Dithiocarbamate complex, Xylene 242(1991)209

Flow system; Copper; Aluminium alloys; Electrolytic dissolution 243(1991)65

Mercury; Coal fly ash; Gold amalgamation, Cold vapour 243(1991)71

Thallium; Graphite furnace, Matrix modifiers 243(1991)239

Flow system; Catalysts; Mercury; Copper salts, Cadmium salts, Continuous microflow, Cold vapour 243(1991)247

Bismuth; Extraction; 2-(2-Benzoxazolyl)cyanoacetaldehyde, 2-(2-Benzoxazolyl)malonaldehyde 244(1991)123

Antimony; Interferences; Transition metal ions; Hydride generation, Sodium tetrahydroborate 244(1991)129

Flow system; Gold; Ores; Preconcentration; Amberlite XAD-8 resin 245(1991)7

Waters; Sea water; Extraction; Separating funnels; Fluorinated ethylene-propylene, Dithiocarbamate-Freon-TF-extraction 245(1991)21

Emission spectrom.; Silica; Metal impurities; Acid decomposition; Vapour phase, PTFE bomb 245(1991)35

Spectrophotometry; Rocks; Geological samples; Microwave acid digestion 245(1991)43

Air; Lead; Manganese; Mercury; Electrostatic precipitation 245(1991)203

Liquid chrom.; Computer simulation; Optical activity; Jones and Mueller calculus, Scientific block diagram program 246(1991)9

Emulsification; Manganese; Organic solvents; Zinc; Triton X-100, Bis-2-ethylhexylphosphoric acid 246(1991)347

Gas chromatography; Hydride generation; Tributyltin oxide; Urine; Wood preservatives 246(1991)351

Extraction; Geological materials; Steels; Vanadium; Graphite furnace, Meteorites 246(1991)359

Fire assay; Geological materials; Palladium; Rhodium; Platinum; Rocks; Nickel sulphide 246(1991)365

Fish; Foods; Lead 246(1991)375

Antimony; Extraction; Waters; Lactic acid complex, Malachite Green ion pair, Graphite furnace 247(1991)7

Arsenic; Extraction; Steels; Waters; Graphite furnace, Arsenomolybdic acid 247(1991)13

Coal fly ashes; Selenium; Graphite furnace, Cadmium-palladium chemical modifier 247(1991)19

Principal components; Oysters; Trace metals 248(1991)51

Electrotherm. atomization; Extraction; Tungsten hexafluoride; Trace metals; Trioctylamine 248(1991)235

Electrotherm. atomization; Aluminium; Bismuth; Graphite furnace, Chemical modification, Nickel nitrate, Copper nitrate, Diammonium EDTA 248(1991)251

Gas chromatography; Mercury; Organomercury compounds; Ethylation, Sodium tetraethylborate 248(1991)563

Adsorption losses; Mercury; Cold vapour, Tubing adsorption 248(1991)575

Extraction; Nickel; Zinc; Bis(4-acylpyrazol-5-one) derivative extractants, Liquid-liquid, Polymethylene chain length, Steric effects, Tri-*n*-octylphosphine oxide synergist 249(1991)525

Activ. analysis; Cadmium; Cobalt; Copper; Mercury; Preconcentration; Trace metals; Waters; Zinc; Poly(acrylamidoxime) resin 249(1991)533

Electrotherm. atomization; Biological samples; Graphite furnace; Continuum source, Furnace atomic non-thermal excitation, Palladium and ruthenium modifiers 250(1991)71

### Atomic fluorescence spectrometry

Gas chromatography; Air; Mercury species; Cold-vapour 208(1988)151

Plasmas; Environmental samples; Inductively coupled, Gas-phase atomization 231(1990)85

Mercury; Air; Preconcentration; Gold amalgamation, Cold vapour 236(1990)371

Mercury; Biological samples; Reduction aeration, Microwave dissolution 242(1991)203

## C

**Chemiluminescence**

Flow system; Naphthols 202(1987)247

H.p.l.c.; Immunoassay; Quality control; Steroid labels 205(1988)175

Immunoassay; Choline acetyltransferase; Tissue extracts 205(1988)183

Flow system; Enzyme reactors; Sugars 205(1988)195

Spectrophotometry; Bis(2,4-dinitrophenyl)oxalate degradation 205(1988)207

Immunoassay; Estriol; Saliva 205(1988)215

Immunoassay; Meat samples; Nortestosterone; Comparison 205(1988)223

Immunoassay; Anabolic agents; Bovine serum 205(1988)243

Immunoassay; H.p.l.c.; Oxazepam; Urine 205(1988)249

H.p.l.c.; Estradiol; Serum; Normal-phase 205(1988)255

Flow system; Tetracycline 205(1988)261

Protein labelling; With acridinium ester 205(1988)267

Kinetic analysis; Chromium speciation; Carboxylate ligands, Humic acid 206(1988)263

Nicotinamide adenine dinucleotides; Radical intermediate, Anodic oxidation, Reduced, Electrogenated 209(1988)69

Spectrophotometry; Flow system; Lactic acid fermentations; In-line monitoring 214(1988)137

Flow system; Sulphur dioxide; Wines; Young white 214(1988)429

Polynuclear aromatic hydrocarbons; Micellar solution, Electrogenated 215(1988)341

H.p.l.c.; Fluorimetry; Aminocoumarins 217(1989)11

Metastable transfer emission spectrometry; Superconducting ceramics; Thermally labile oxygen; High-temperature, Microwave discharge 217(1989)53

H.p.l.c.; Cobalt; Rice flour 217(1989)157

Bistrichlorophenyl oxalate; Micellar system 217(1989)229

Hydrogen peroxide; Stopped-flow technique; Luminol 217(1989)239

Organic compounds 217(1989)371

E.s.r.; Superoxide generation 218(1989)179

Cetyltrimethylammonium bromide; Glucose oxidase; Hydrogen peroxide; Luminol; Micelle; Sensor 221(1989)11

Ion exchange; Liquid chrom.; Cobalt; Ion chromatography 221(1989)249

Liquid chrom.; Amine; Aminocoumarin; Luminarane; Peroxyoxalate 223(1989)309

Amino acid; Enzymatic assay; Glucose; Luminol; Micelle 225(1989)147

Flow system; Hollow-fibre reactor; Hydroxy bile acid; Serum; Bioluminescence 225(1989)273

Emission spectrometry; Hydrogen flame 226(1989)305

Flow system; Fibre-optic; NADH; Sensor; Bioluminescence 226(1989)331

Genetic variant; Infectious agent 227(1989)1

Immunoassay; Acridinium label 227(1989)11

Liquid chrom.; Oxo-Bile acid; Oxo-Steroid; Peroxyoxalate 227(1989)21

Flow system; Blood; Creatine kinase; Bioluminescence 227(1989)29

Biexponential degradation; Bis(dinitrophenyl) oxalate; Peroxyoxalate; Diphenylanthracene 227(1989)37

Cytochrome; Luminol; Microsomal protein; Isoenzyme 227(1989)49

Iron chelate; Luminol; Xanthine oxidase 227(1989)57

Benzodiazepine; Loprazolam 227(1989)65

Flow system; Immunoassay; Acridinium; Immunoglobulin G 227(1989)97

Spectrophotometry; Immunoassay; Nortestosterone; Enzyme 227(1989)109

Immunoassay; Progesterone; Whole saliva; Microtitre plate 227(1989)119

Fluorimetry; Tissue; Charge coupled device 227(1989)257

Hypochlorite; Luminol; Water; Stopped-flow 228(1990)123

Air; Indigodisulphonate; Ozone 230(1990)183

Liquid chrom.; Diaminophthalhydrazide; Keto acids; Hydrogen peroxide 231(1990)1

Ion exchange; Chlorine; Waters; Urine; Tap, Amberlite anion-exchange resin, Chloramines, Immobilized, Xanthene dye 231(1990)7

Formic acid; Waters; Sea water; Enzyme bioluminescence reaction 231(1990)299

Flow system; Chromium; Flavin mononucleotide; Cationic micellar surfactant modifier, Hydrogen peroxide 232(1990)385

Flow system; Electroluminescent compounds; Polynuclear aromatic hydrocarbons; Micelle-encapsulated, 9,10-Diphenylanthracene, Oxide-covered aluminium electrode 233(1990)199

Flow system; Fibre-optic sensor; ATP; NADH; Enzyme system; Polyamide membrane 235(1990)243

Chromatography; Flow system; Cobalt; Copper; Iron; Ion chromatography, Cation-exchange column 236(1990)287

Acetaldehyde; Enzyme reaction; Xanthine oxidase, Luminol, Potassium hexacyanoferrate (III) 236(1990)459

Quinine; Quinidine; Pharmaceuticals; Continuous-flow 236(1990)463

Simplex optimization; Fuzzy linear-weight transformation, Multiple feature 236(1990)495

Dimethylxanthine; Europium(III); Energy transfer 237(1990)273

Flow system; Immunoassay; Haptens; Enzyme system; Thyroxine; Horseradish peroxidase, Luminol 237(1990)285

Chromatography; Ion exchange; Trace metals; Multi-element detection; Waters; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291

Spectrophotometry; Flow system; Enzyme reactions; Glucose; Serum; Mimetic peroxidase, Hydrogen peroxide, Luminol 237(1990)497

Fluorimetry; Phosphorimetry; Aluminium; Milk powder; Liquid room temperature, Ferron, Vesicles 238(1990)297

Liquid chrom.; Fluoropyrimidines; Coumarin derivatization reagents 239(1990)181

Flow system; Surfactants; Waters; Sea water; Nonidet AT 85, Rhodamine B sensitizer 239(1990)189

Flow system; Steroids; Cortisone; Corticosterone; Hydrocortisone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195

Flow system; Vitamin B<sub>12</sub>; Luminol, Hydrogen peroxide, Cobalt 243(1991)127

Biosensors; Fibre-optic sensor; Enzyme-catalysed reactions; Self-contained, Entrapped co-reactant 243(1991)149

Toxic compounds; Environmental pollutants; Recombinant DNA; *Escherichia coli* bioluminescence, Sodium azide, Chloramphenicol 244(1991)201

Liquid chrom.; Chromatography; Alkanolamines; Ethanolamines; Ion-pair, Luminol 246(1991)447

Flow system; Amines; Amino acids; Fenton's reagent; Schiff bases; Phenylacetaldehyde, Sodium bis(2-ethylhexyl)sulphosuccinate reversed micellar solution 247(1991)27

Spectrophotometry; Flow system; Biomass; Fermentation; Glucose; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

Immunoassay; Methyltestosterone; Steroids; Direct reading, Microtitre plates, Luminoskan, Solid-phase 248(1991)207

Flow system; DNA; Enzyme reactor; Biotinylated glucose oxidase-labelled DNA probes, Hydrogen peroxide 249(1991)155

Flow system; Manganese; Sea water; Waters;  $\delta$ -Hydroxyquinoline concentration, 7,7,8,8-Tetracyanoquinodimethane 249(1991)469

Carboxylic acids; Luminol; Peroxyoxalate; Polyaromatic hydrocarbons 250(1991)145

### Chromatography

see also Gas chromatography, Gel permeation chromatography, High-performance liquid chromatography, Liquid chromatography, Paper chromatography, Thin-layer chromatography

Pattern recognition; *k*-Nearest-neighbour, Peak recognition 201(1987)153

Pattern recognition; Distance measures, *k*-Nearest-neighbour 201(1987)171

Resolution; Statistical functions for overlapping peaks 201(1987)193

Algorithm; Column 222(1989)369

Ion exchange; Selectivity coefficient; Streaming potential 228(1990)61

Electrochemical concentration; Injection device; Correlation chromatography 228(1990)209

Ion exchange; Glyphosate; Nitrosoglyphosate 230(1990)29

Spectrophotometry; Copper; Zinc; Cadmium; Preconcentration; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393

Ion exchange; Cyclic voltammetry; Nitrosamines; Methylidihydroxadiazolium ion; Electrochemical detection, 1-Octanesulphonic acid ion-pairing reagent 232(1990)397

Flow system; Fibre-optic sensors; Optosensing; Ammonia; Phosphate; Thin-layer detector 234(1990)31

Chromatography; Signal/noise enhancement; Matched filtering; Theory 235(1990)343

Chromatography; Signal/noise enhancement; Matched filtering; Program and simulation 235(1990)355

Sample preparation 236(1990)3

Sample preparation; Steam distillation; Resin extraction; Organic compounds, Aqueous samples 236(1990)43

Sample preparation; Extraction solvents; Ethylammonium nitrate; Propylammonium nitrate; Liquid-liquid extraction, Proton donors 236(1990)51

Pesticides; Foods; Sample preparation; High fat 236(1990)77

T.l.c.; Sample preparation; Planar chromatography 236(1990)83

Sample preparation; Pharmaceuticals; Pesticides; Biological samples; Serum; Blood; Extraction 236(1990)99

Standards; Exponential dilution; Gaseous, Concentration gradients 236(1990)221

Chiral separation; Optical purity; Micellar electrokinetic chromatography; Trimetoquinol hydrochloride; Laudanosine, Norlaudanosine, Laudanosine, Sodium taurodeoxycholate 236(1990)281

Chemiluminescence; Flow system; Cobalt; Copper; Iron; Ion chromatography, Cation-exchange column 236(1990)287

Ion exchange; Chemiluminescence; Trace metals; Multi-element detection; Waters; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291

Ion exchange; Oxalate; Plasma; Enzymatic method; Chloride removal 237(1990)299

Ion exchange; Inorganic anions; Waters; Conductivity; Cu(II)-containing poly(3-methylthiophene) electrode, Single column 237(1990)317

Titrimetry; Ion exchange; Process analysis; Gas treatment; Sulphur; Thiols; Automated titrator 238(1990)161

Ion exchange; Spectrophotometry; Aluminium; Preconcentration; Pyrocatechol violet, Aqueous samples 238(1990)279

Flow system; Ion exchange; Potentiometry; Ion-selective electrodes; Calcium 242(1991)65

Amino acids; Enantioselective solubilization; Mixed-ligand complexes, *N*-alkyl-L-proline derivatives 242(1991)291

Polynuclear aromatic hydrocarbons; Fluorescence quenching; Nitromethane 246(1991)65



Subambient temperature separations; Reversed-phase liquid chromatography 246(1991)139

Photon counting system 246(1991)151

Flow system; Ion exchange; Cyclic voltammetry; Alkaline earth metal ions; Alkali metal ions; Polyaniline-Nafion electrode 246(1991)275

Peak purity control; Factor analysis 246(1991)379

Liquid chrom.; Chemiluminescence; Alkanolamines; Ethanolamines; Ion-pair, Luminol 246(1991)447

Peak parameters; Log-normal model 248(1991)59

Headspace analysis; Polyolefins; Correlation chromatography 248(1991)271

Fourier-transform filter; Signal-to-noise ratio 248(1991)441

Ion exchange; Copper; Palladium; Base metals 248(1991)535

Mass spectrometry; Liquid chrom.; Electrophoresis; Ion exchange; Histone H2A (1-53)-NH<sub>2</sub>; Peptides; Synthesis, Purification, Characterization 249(1991)215

Peak characterization; Gram-Charlier series, Edgeworth-Cramér series 249(1991)337

Ion exchange; Arsenate; Germanate; Phosphate; Silicate; Molybdenum blue reaction, Post-column detection 249(1991)539

Ion exchange; Cyanides; Ion-interaction chromatography; Metallo-cyanides; Preconcentration 250(1991)21

## Conductometry

Polarography; Crown ether complexes; Stability constants; Divalent cations 201(1987)117

Air; Sulphur dioxide; Wall-jet detector; Preconcentration in water 203(1987)1

Amperometry; Carbohydrates; Pulsed 204(1988)323

Ion exchange; Spectrophotometry; H.p.l.c.; Anions; Waters; Tiron eluent 206(1988)281

Flow system; Spectrophotometry; Critical micelle concentrations; Surfactants; Ionic, Nonionic 209(1988)111

Enzyme-catalyzed reactions; Serum; Urea 211(1988)205

Ethanol production; Baker's yeast, Gas sensor 213(1988)151

Kinetic analysis; Blood; Enzyme activities 213(1988)267

Flow system; Spectrophotometry; Potentiometry; Fluorimetry; Automated micro batch analyser; Microcomputer control 214(1988)107

Ethanol probe; Fermentors; Membrane gas sensor 215(1988)71

Pattern recognition; Odour-sensing system; Semiconductor gas sensors 215(1988)155

Gas chromatography; Alkanes; Hydrogen; Semiconductor gas sensors; Simplex optimization 216(1989)147

H.p.l.c.; Air; Nitrate; Nitrite; Passive monitors; Sulphate 217(1989)135

H.p.l.c.; Ion exchange; Sludges; Soils; Tungstate 217(1989)383

Acetic acid; Acetone; Computerised array; Ethanol; Semiconductor gas sensors 219(1989)213

Isotachopheresis automation; Data management 219(1989)247

Total organic carbon; Volatile organic carbon; Waters; Denuder/electrolytic conductivity flow cell 220(1989)1

Flow system; Waters; Organic pollutants; Titanium dioxide; Film reactor; Immobilized 231(1990)13

Biosensor; Enzyme reactor; Urea; Asparaginase; Creatinine; Miniature, Multi-analyte, Electrode double layer capacitance 231(1990)33

Titrimetry; Humic acids; Polyelectrolytes 232(1990)141

Total organic carbon; Photocatalytic oxidation; Waters; Carbon dioxide 233(1990)171

Potentiometry; Titrimetry; Phenolic acids; Triethylamine, Tetrabutylammonium hydroxide 234(1990)339

Titrimetry; Anions; Tetra-*n*-octylammonium fluoride; Long-chain quaternary ammonium fluorides 238(1990)389

Flow system; Organohalogenes; Combustion; Preconcentration; Air 241(1990)71

Piezoelectric quartz crystal; Electrodeless, Mass sensor 243(1991)273

Flow system; Gas diffusion; Nitrogen; Waters; Ammonia, Nitrate, Nitrite 245(1991)183

Titrimetry; Iron; Piezoelectric detection; Dichromate, Permanganate, Redox 246(1991)421

Titrimetry; Piezoelectric detection; Iodimetry; Thiosulphate, Thiocyanate, Ascorbic acid, Linear extrapolation 246(1991)425

Biological samples; Elastase; Enzyme activity; *Pseudomonas aeruginosa*; Tetraalanine substrate, Insoluble elastin substrate 247(1991)79

Titrimetry; Potentiometry; Mesoionic compounds; Photographic additives; Silver complexes; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248(1991)603

## Coulometry

Titrimetry; Spectrophotometry; Amperometry; Cell design 202(1987)75

Titrimetry; Potentiometry; Alkali metal halides; Trivalent metal sulphates; Hydrogen/palladium electrode 202(1987)231

Voltammetry; Mercaptoethanol; Anodic behaviour 206(1988)65

Amperometry; Flow system; Glycols; Anodic, Kinetics, Nickel electrode 208(1988)247

Spectrophotometry; Hydrolysis of complex ion; Spectrocoulometric study; Tris(1,10-phenanthroline)iron(III) 209(1988)87

Acetyl ion generation; Organic bases; Oxidation of mercury in acetic anhydride 212(1988)73

Spectrophotometry; Voltammetry; Bicinchoninic acid; Protein 221(1989)223

Uric acid; Uricase; Urine 225(1989)425

Sensor-actuator; Field effect transistor 229(1990)71

Hydrogen ion; Mercury; Thiol; Platinum anode, Acetic acid-acetic anhydride 229(1990)221

Ester; Hydrogen ion; Anodic oxidation, Propylene carbonate 229(1990)287

Flow system; Uric acid; Urine 230(1990)195

Liquid chrom.; Spectrophotometry; Amperometry; Thienodiazepines; Pharmaceuticals 234(1990)175

Titrimetry; Ion-selective field-effect transistor; Migration effect; Modelling, Sensor-actuator, Diffusion, Simulation, Nernst-Planck equations 237(1990)71

Titrimetry; Silver; Iron; Steel; Hydrogen sulphide 244(1991)59

Cyclic voltammetry; Diff. pulse voltammetry; Chronocoulometry; Azidothymidine; Reduction mechanism, Electrode fouling 248(1991)399

Voltammetry; Electrode reaction mechanisms; Expert system 248(1991)429

### Cyclic voltammetry

Bilayer lipid membranes; Electrical properties, Containing iodine and iodide 201(1987)51

Absolute pH scale; Acid-base equilibria; In organic solvents 208(1988)207

Piezoelectric sensing; Silver; Adsorption 209(1988)213

Digital simulation; Non-first-order electrode reactions, Finite-difference, Linear-sweep 211(1988)75

Flow system; (Fast scans) 211(1988)287

Chronoamperometry; Lead; Carbon fibre electrodes 212(1988)331

Flow system; Phenolic compounds; Waters; Derivative 214(1988)375

Diff. pulse polarography; Marine organisms; Vanadium 219(1989)281

Voltammetry; Kalman filter 223(1989)193

Electrode kinetics; Ferrocene; Micro-electrode 225(1989)83

Modified electrode; Preconcentration; Tifluadom 228(1990)265

Amperometry; Diff. pulse voltammetry; Carbon electrodes; Biosensors; Ascorbic acid; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

Gold; Carbon paste-electrode; Chelating resin modified 232(1990)367

Chromatography; Ion exchange; Nitrosamines; Methylhydrazidiazolium ion; Electrochemical detection, 1-Octanesulphonic acid ion-pairing reagent 232(1990)397

Diff. pulse polarography; Carbodiimides 234(1990)471

Glucose; Enzyme electrode; Poly(*N*-methylpyrrole) film, Immobilized, Glucose oxidase, Gold microelectrode, Electropolymerization 235(1990)255

Octadecylsilyl-coated electrodes; Micellar solutions; Ferrocene, Hexammineruthenium(III), Hexacyanoferrate(II), Sodium dodecyl sulphate, Cetyltrimethylammonium bromide, Platinum electrode, Pyrolytic graphite electrode 235(1990)307

Diff. pulse polarography; Celipitium; Pharmaceuticals; Carbon paste electrode; Lipid modification 236(1990)299

Diff. pulse polarography; Diff. pulse voltammetry; Vanadium; Speciation; EDTA complexes 236(1990)315

Kinetic analysis; Hexacyanoferrates; Oscillating reaction; Mechanism, Silver plating solution, Photographic solution 236(1990)411

Amperometry; Pulp bleaching; Paper; Chlorine dioxide; Process analysis; In-line monitoring 238(1990)223

Voltammetry; Adsorptive stripping; Azinphos-methyl; Guthion; Waters 238(1990)383

Amperometry; Iron(II) complexes; Ethanedial; Glyoxal; Carbon paste electrodes; Redox mediators 242(1991)241

Diff. pulse voltammetry; Flow system; Plant tissue-vitreous carbon electrodes; Biosensors; Mushroom, Potato, Horseradish 242(1991)259

Diff. pulse voltammetry; Diaminopurinol; Graphite electrodes; Carbonyl sites 243(1991)33

Glassy carbon electrodes; Redox species; Electrochemical oxidation 243(1991)43

Kinetic analysis; Orthogonal collocation; Heterogeneous equivalent formulation; Simulation; Fast second-order reactions 243(1991)301

Ionophores; Monensin; Lasalocid; Antibiotics; Gel/electrolyte interface, charge transfer 244(1991)15

pH sensor; Waters; Coated-wire electrode; Chemically modified electrode, Poly(4,4'-diaminobiphenyl) 244(1991)165

Amperometry; Flow system; Liquid chrom.; Carbohydrates; Amino acids; Constant-potential amperometric detection, Metallic electrodes 244(1991)169

Ferrocenylalkanethiols; Alkanethiols; Gold electrode; Mixed monolayer films 246(1991)233

Chlorine; Microelectrodes; Waters; Platinum microdisc, Gold microdisc and microband 246(1991)267

Flow system; Chromatography; Ion exchange; Alkaline earth metal ions; Alkali metal ions; Polyaniline-Nafion electrode 246(1991)275

Amperometry; Flow system; Glassy carbon electrodes; Micro-electrode arrays; TTF-TCNQ, Hydroquinone, Dopamine, Ascorbic acid 246(1991)315

Liquid chrom.; Flow system; Amperometry; Carbohydrates; Sugars; Nickel-catalysed glassy carbon electrode 248(1991)117

Amperometry; Enzyme electrodes; Glucose; Viologens; Electron-transfer mediators, Carbon paste electrode 248(1991)155

Diff. pulse voltammetry; Coulometry; Chronocoulometry; Azidothymidine; Reduction mechanism, Electrode fouling 248(1991)399

Immunoassay; Voltammetry; Anti-HSA; HSA; Immunosensors; Polymer-modified electrodes; Polypyrrole 249(1991)381

Amperometry; Electropolymerization; Glassy carbon electrodes; Polymer-coated electrodes; Resole prepolymer mixtures; Continuous-flow sensing 249(1991)395

## D

### D.c. polarography

Galactosamine complexes; Glucosamine complexes; Cobalt, Nickel, Copper 207(1988)85

Voltammetry; Diff. pulse polarography; Uracil derivatives; Cathodic stripping 211(1988)155

Anion-induced adsorption; Metal ions 218(1989)7

Voltammetry; Fulvic acids; Metal-fulvic complexes; Complexants; Diffusion coefficient, Distribution function 232(1990)209

Indium; Cadmium; Polyethylene glycol monostearate 233(1990)325

Diff. pulse polarography; Voltammetry; Potentiometry; Controlled potential electrolysis; Aziridinylquinones; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

Diff. pulse polarography; Pirimicarb; Carbamates; Pesticides; Tast 234(1990)309

Diff. pulse polarography; Copper; Aminomethoxypropane; Dimethylaminoethanol; Waters; Boiler water; Amine complexes, Reduction 239(1990)291

Nitrite; Cobalt(II)-thiocyanate-ascorbic acid complex, Single-sweep 241(1990)161

### Differential pulse polarography

Chlorite; Waters 204(1988)169

Hydrazides; Isonicotinic acid hydrazide; Pharmaceuticals 206(1988)379

Voltammetry; D.c. polarography; Uracil derivatives; Cathodic stripping 211(1988)155

Anod. stripping voltammetry; Flow system; Trace metals; Waters; Differential-pulse 215(1988)13

Cyclic voltammetry; Marine organisms; Vanadium 219(1989)281

D.c. polarography; Voltammetry; Potentiometry; Controlled potential electrolysis; Aziridinylquinones; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

D.c. polarography; Pirimicarb; Carbamates; Pesticides; Tast 234(1990)309

Cyclic voltammetry; Carbodiimides 234(1990)471

Cyclic voltammetry; Celiptium; Pharmaceuticals; Carbon paste electrode; Lipid modification 236(1990)299

Amino acids; Foods; Serum; Schiff's base, Borax buffer, Acetaldehyde 236(1990)307

Cyclic voltammetry; Diff. pulse voltammetry; Vanadium; Speciation; EDTA complexes 236(1990)315

D.c. polarography; Copper; Aminomethoxypropane; Dimethylaminoethanol; Waters; Boiler water; Amine complexes, Reduction 239(1990)291

Micellar solutions; Organochlorine pesticides; Pesticides; Dieldrin, Endosulfan, Endosulfan sulphate, Surfactants 246(1991)293

### Differential pulse voltammetry

Oyster Tissue; Selenium; 3,3'-Diaminobenzidine piazselenol 201(1987)23

Anaerobic adhesive; Copper; Iron; Glassy carbon electrode 217(1989)335

Anod. stripping voltammetry; Ion exchange; Lead; Copper 231(1990)133

Cyclic voltammetry; Amperometry; Carbon electrodes; Biosensors; Ascorbic acid; Glutathione; Screen-printed, Cobalt phthalocyanine modifier 231(1990)203

Anod. stripping voltammetry; Cadmium; Lead; Mercury-poly(4-vinylpyridine) coating, Glassy carbon electrode 234(1990)479

Cyclic voltammetry; Diff. pulse polarography; Vanadium; Speciation; EDTA complexes 236(1990)315

Anod. stripping voltammetry; Lead; Urine; Fumed silica 237(1990)177

Surfactants; Fast scan 237(1990)233

Anod. stripping voltammetry; Mercury electrodes; Polymer modified electrodes; Copper; Lead; Cadmium 238(1990)345

Iron; Waters; Aluminium; Carbon paste electrodes; Preconcentration; Nafion modifier, 1,10-Phenanthroline modified 241(1990)137

Cyclic voltammetry; Flow system; Plant tissue-vitreous carbon electrodes; Biosensors; Mushroom, Potato, Horseradish 242(1991)259

Cyclic voltammetry; Diaminopurinol; Graphite electrodes; Carbonyl sites 243(1991)33

Europium; Ytterbium; Rare earths; Mercury thin-film electrodes; Nafion coating; Ion-exchange preconcentration 244(1991)29

Voltammetry; Oxazepam; Camazepam; Temazepam; Benzodiazepines; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

Molybdenum; Plant materials; Waters; Nitrate, 8-Hydroxyquinoline 244(1991)193

Cyclic voltammetry; Coulometry; Chronocoulometry; Azidothymidine; Reduction mechanism, Electrode fouling 248(1991)399

Biological cells; Biosensors; Nickel; Porphyrin microsenors; Carbon fibre ultramicroelectrodes, Single cells 249(1991)35

Copper; Gold; Reactor moderator water; Silver; Mercury; Waters 249(1991)447

## E

### Electron probe analysis

Mass spectrometry; Ion-microprobe; Review; Three-dimensional analysis; Secondary-ion 216(1989)25

Microanalysis; Review 218(1989)185

Hydrogenation; Nickel catalyst; Sulphur poisoning 226(1989)43

### Electron spin resonance

Transition metal ions; Variation of temperature, First-derivative 218(1989)93

Chemiluminescence; Superoxide generation 218(1989)179

X-ray fluores. spectrometry; Coprecipitation; Manganese; Pore water 222(1989)169

Fulvic acids; Paramagnetic metal ions 232(1990)51

Oxygen free radicals; Superoxide; Copper complexes, Hydroxyl radicals 243(1991)221

### Electrophoresis

Biomolecule purification; Staining system; Automated 213(1988)207

Peptides; Recombinant DNA technology; Capillary zone 213(1988)215

Enteropathogenic bacteria; Restriction endonucleases 213(1988)273

Fluorimetry; Polynuclear aromatic hydrocarbon 229(1990)295

Food extract; Metal-protein complex; Flow-through, Flat-bed 230(1990)1

Liquid chrom.; Micellar chromatography; Binding constants; Capillary zone, Surfactants 231(1990)237

Proteinase; Enzyme activities; Trypsin; Papain; Chromogenic substrates, *N*-Benzoyl-DL-arginine *p*-nitroanilide 238(1990)331

Liquid chrom.; Solute-micelle binding constants; Micellar, Electrokinetic 246(1991)131

Liquid chrom.; Haemoglobin; Isoelectric focusing; Peptides; Proteins; Anion-exchange, Red blood cells 249(1991)169

Mass spectrometry; Liquid chrom.; Ion exchange; Chromatography; Histone H2A (1-53)-NH<sub>2</sub>; Peptides; Synthesis, Purification, Characterization 249(1991)215

Monoclonal antibodies; Micropreparative collection system, Multiple capillaries 249(1991)247

Immunoassay; Antibody expression; Enzyme-linked immunosorbent assay; Flow cytometry; Hybridoma cells; Monoclonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

Haemoglobin; Isoelectric focusing; Thermally formed, stepped-ramp pH gradients, Hb variant separation 249(1991)297

Liquid chrom.; Capillary 250(1991)45

### Electrothermal atomization

Spectrophotometry; Fuel oils; Sulphur; Carbon sulphide molecules 201(1987)59

Principal components; At. abs. spectrometry; Milk; Trace metals; Cow 201(1987)253

At. abs. spectrometry; Antimony; Semiconductor silicon; Solid samples 201(1987)311

At. abs. spectrometry; Copper; Coprecipitation preconcentration; Manganese; Waters 202(1987)223

At. abs. spectrometry; Extraction; Palladium; Platinum; Rocks; Soils; Iodo complexes 204(1988)333

At. abs. spectrometry; Extraction; Gold; Silver; Thallium; Urine; Flame, Iodide complexes 207(1988)283

At. abs. spectrometry; Sea water; Tetrahydroborate reductive precipitation; Trace elements; Preconcentration 207(1988)291

At. abs. spectrometry; Phosphorus; Plant materials; Tea leaves 208(1988)351

At. abs. spectrometry; Copper; Sea water; Zinc; Polymer-supported 1,4,8,11-tetraazacyclotetradecane 209(1988)249

At. abs. spectrometry; Bismuth metal; Copper; Extraction; Zinc; Thiocyanate 209(1988)281

At. abs. spectrometry; Calcium carbonate scale; Carbonate rocks; Copper; Solid samples 209(1988)287

Ion exchange; At. abs. spectrometry; Heavy metals; Seawater; Pre-concentration, Chelex-100, pH and salts 211(1988)257

Ion exchange; At. abs. spectrometry; Heavy metals; Seawater; Pre-concentration, Chelex-100, Optimization, Plate simulation method 211(1988)271

At. abs. spectrometry; Beryllium; Urine; Matrix modifier 217(1989)271

At. abs. spectrometry; Cobalt; Iron; Nickel; Molybdenum tube 217(1989)377

At. abs. spectrometry; Copper; Environmental samples; Extraction; Lead 218(1989)173

At. abs. spectrometry; Foods; Molybdenum 219(1989)79

At. abs. spectrometry; Phosphorus; Platform 219(1989)127

At. abs. spectrometry; Silicon; Matrix modifiers 220(1989)83

Principal components; At. abs. spectrometry; Mussels; Trace elements; Polluted and unpolluted 220(1989)135

At. abs. spectrometry; Microwave dissolution; Silicate materials 220(1989)263

Emission spectrometry; At. abs. spectrometry; Plasmas; Vanadium; Titanium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139

At. abs. spectrometry; Extraction; Tungsten hexafluoride; Trace metals; Triethylamine 248(1991)235

At. abs. spectrometry; Aluminium; Bismuth; Graphite furnace, Chemical modification, Nickel nitrate, Copper nitrate, Diammonium EDTA 248(1991)251

At. abs. spectrometry; Biological samples; Graphite furnace; Continuum source, Furnace atomic non-thermal excitation, Palladium and ruthenium modifiers 250(1991)71

### Emission spectrometry

Ion exchange; Geological samples; Gold; Palladium; Plasmas; Platinum 201(1987)95

Pattern recognition; Archaeological glass; Origin, Supervised learning, Optical emission spectrography 201(1987)289

Afterglow discharge; Polynuclear aromatic hydrocarbons 201(1987)317

Molecular emission cavity analysis; Organic sulphur compounds; Electrolytic generation of hydrogen sulphide 202(1987)241

Flow system; Molecular emission cavity analysis; Organic sulphur compounds; Alkaline hydrolysis 204(1988)285

Spectrophotometry; Plasmas; Silica speciation; Waters; High-purity, Inductively coupled 204(1988)339

Principal components; Plasmas; Inductively-coupled 206(1988)203

H.p.l.c.; Geological samples; Plasmas; Rare-earth elements; Inductively-coupled 207(1988)149

Extraction; Geological materials; Plasmas; Silver 207(1988)171  
 At. abs. spectrometry; Molybdenum; Organometallic compounds; Flame 207(1988)259  
 Computer-controlled rapid-scanning echelle monochromator; Plasmas; Sediments; Soils; Trace elements; Inductively-coupled 207(1988)269  
 Body fluids; Elements; Discrete nebulization, Nitrous oxide/acetylene 207(1988)349  
 Alcohol dehydrogenase-catalyzed reactions; Ethanol; Molecular emission cavity analysis 207(1988)355  
 Liquid chrom.; Geological samples; Plasmas; Rare earth elements; Inductively-coupled, Oxalate coprecipitation, Cation-exchange 208(1988)163  
 Plasmas; Simplex optimization; Multi-element, Inductively-coupled, Wide-bore injector, Minimum interference 209(1988)135  
 Hydride generation; Molecular emission cavity analysis; Tin 209(1988)275  
 Flow system; Ion exchange; At. abs. spectrometry; Extraction; Gas diffusion; On-line separation; Preconcentration 214(1988)41  
 Flow system; At. abs. spectrometry; Review 214(1988)57  
 H.p.l.c.; Microwave-induced nitrogen discharge; Replacement-ion chromatography 215(1988)99  
 H.p.l.c.; Flow system; Plasmas; Microliter samples, Peak-shaped input, Inductively-coupled 215(1988)143  
 Flow system; Boron; Plasmas; Waters; Inductively coupled 218(1989)69  
 Plasmas; Ruthenium; Enhancement by periodic acid, Inductively coupled 218(1989)77  
 Mass spectrometry; Mercury; Natural waters; Sediment; Inductively coupled plasma/mass spectrometry, Sodium borohydride 221(1989)77  
 Sodium aluminate; Bayer process, Inductively coupled plasma 221(1989)91  
 Barium; Copper; Superconductor; Yttrium; Inductively coupled plasma 221(1989)167  
 Barium; Sea water; Inductively coupled plasma 222(1989)55  
 Amniotic fluid; Inductively coupled plasma, Metals 224(1989)73  
 Biological material; Dissolution; Environmental material; Microwave; Inductively coupled plasma 225(1989)159  
 Neutron activation; Copper isotope; Dietary copper; Hair; Direct-current argon plasma 225(1989)185  
 Flow system; Sulphide; Molecular emission cavity analysis 225(1989)359  
 Noise; Signal analysis; Inductively coupled plasma, Microlitre sample 226(1989)53  
 Calibration; Signal analysis; Inductively coupled plasma, Microlitre sample 226(1989)73  
 Chemiluminescence; Hydrogen flame 226(1989)305  
 Gas chromatography; Biological sample; Methylmercury; Headspace, Microwave-induced plasma 228(1990)93

Isotope dilut. analysis; Mass spectrometry; Geological material; Rubidium 229(1990)157  
 At. abs. spectrometry; Mass spectrometry; Gold; Platinum; Solvent extraction; Zeeman effect, Graphite furnace 229(1990)227  
 Hydride generation; Germanium; Interference 229(1990)239  
 HNO emission; Hydrogen flame 230(1990)151  
 Nickel; Microwave-induced plasma; Preconcentration; Biological samples; Nickel carbonyl, Chromosorb 231(1990)265  
 Plasmas; Chromium; Inductively coupled, Simultaneous trace element determination 233(1990)243  
 Molecular emission cavity analysis; Cyanide; Sulphite-formaldehyde addition compound 233(1990)307  
 Plasmas; Arsenic; Inductively coupled, Tandem on-line continuous separation 234(1990)133  
 Flow system; Gasoline; Lubricating oil; Flame 234(1990)439  
 Molecular emission cavity analysis; Sulphur; Quenching, Oxygen-hydrogen flame 235(1990)413  
 Activ. analysis; Mass spectrometry; Rare earth elements; Rocks; Plasmas; Isotope dilution, Inductively coupled 236(1990)487  
 At. abs. spectrometry; Electrotherm. atomization; Plasmas; Vanadium; Titanium; Steel; Inductively coupled, Tungsten boat atomizer 239(1990)139  
 Molecular emission cavity analysis; Amino acids; Indirect, Trinitrobenzenesulphonic acid, Sulphur emission 239(1990)161  
 Sulphate; Disulphur; Disulphur molecular emission 243(1991)227  
 At. abs. spectrometry; Silica; Metal impurities; Acid decomposition; Vapour phase, PTFE bomb 245(1991)35  
 Boron; Direct current; Plasmas; Silica; Acid decomposition, Mannitol 245(1991)207  
 Germanium compounds; Plasmas; Inductively coupled 247(1991)1  
 Flow system; Plasmas; Preconcentration; Sea water; Trace metals; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241  
 Geological materials; Gold; Plasmas; D.c. argon plasma 248(1991)569  
 Spectrophotometry; Geological materials; Plasmas; Silica; Centrifugation, Differentiation of colloidal and dissolved silica, Filtration, Inductively coupled, Tufts 249(1991)509  
 Magnesium; Plasmas; Inductively coupled, Optimization 250(1991)85

## F

### Flow system

Potentiometry; Mercury; Water; Fibre electrodes, Computerized, Constant-current stripping 201(1987)1



- Fluorimetry; Micellar-catalyzed reaction; Pyridoxal 201(1987)67
- Spectrophotometry; Hydrogen peroxide; Seawater; Reagent-injection 201(1987)83
- Unsteady motion; Mathematical model 201(1987)109
- Potentiometry; Arsenic; Sea water; Constant-current stripping. Gold fibre electrodes 201(1987)263
- Potentiometry; Air; Mercury; Computerized flow constant-current stripping. Gold fibre electrode 201(1987)269
- At. abs. spectrometry; Extraction; Indium; Flame 201(1987)325
- Spectrophotometry; Fluorimetry; Europium; On-line reduction 201(1987)339
- Spectrophotometry; Copper; Microemulsions 201(1987)345
- Fluorimetry; Blood; Enzyme reactor; Lactate; Immobilized 201(1987)351
- Spectrophotometry; Etoposide; On-line electrochemical derivatization; Plasma; Teniposide; Diode-array detection 202(1987)35
- Potentiometry; Enzyme-modified field effect transistor; Urea 202(1987)131
- Enzyme reactor; Foods; Fructose; Glucose 202(1987)199
- Chemiluminescence; Naphthols 202(1987)247
- Potentiometry; Chemical sensor testing; Urease sensor; On-line analysis 204(1988)7
- Kinetic analysis; Spectrophotometry; Paracetamol; Single bead-string reactor; Optimization 204(1988)29
- Amperometry; Carbohydrate; Enzyme reactor; Starch; Immobilized glucoamylase 204(1988)43
- Spectrophotometry; Ion exchange; Arsenate; Phosphate; Silicate 204(1988)53
- Spectrophotometry; Molasses; Sucrose; Sugar-cane juice 204(1988)259
- Pharmaceuticals; Serum; Sulphonamides; Urine 204(1988)271
- Emission spectrometry; Molecular emission cavity analysis; Organic sulphur compounds; Alkaline hydrolysis 204(1988)285
- Potentiometry; Photo-cured polymer membrane; Potassium-selective electrode; Valinomycin 204(1988)329
- Fluorimetry; Amines; Secondary, Non-aqueous 204(1988)343
- Fluorimetry; Intracerebral dialysis; Lactic acid; Rat brains; Enzymatic 205(1988)53
- Chemiluminescence; Enzyme reactors; Sugars 205(1988)195
- Fluorimetry; Amino acids; Bioluminescence; Enzyme reactor; Serum; Urine; Branched-chain 205(1988)229
- Chemiluminescence; Tetracycline 205(1988)261
- Amperometry; Enzyme reactors; Myo-inositol 206(1988)49
- At. abs. spectrometry; Plants; Zinc; Flame 206(1988)253
- Spectrophotometry; Acids; Bases 206(1988)313
- Potentiometry; Cadmium; Lead; Nafion-modified carbon fibre electrodes; Urine; Zinc; Computerized flow, Stripping 207(1988)17
- Potentiometry; Silver; Constant-current stripping 207(1988)27
- Potentiometry; Arsenic; Seawater; Urine; Constant-current stripping 207(1988)37
- Amperometry; Residual chlorine 207(1988)59
- Orthophosphate; Reliability criterion; Method development evaluation 207(1988)111
- Dilution module; Single-stage, Dual-stage 207(1988)225
- Amperometry; Cholesterol; Enzyme reactor; Serum 207(1988)319
- Potentiometry; Antilog converter 207(1988)325
- Kinetic analysis; Cobalt; Waters; In-line preconcentration 207(1988)331
- Spectrophotometry; Aluminium; Waters 207(1988)337
- Dispersion characteristics; Single-line, Without chemical reaction 208(1988)117
- Simulation of mathematical models; Single-line, Without chemical reaction 208(1988)133
- Potentiometry; Fluoride-selective electrode; Horseradish peroxidase; Milk; Turnip extract 208(1988)173
- Potentiometry; Cobalt; Nickel; Constant-current stripping, Carbon fibre electrodes 208(1988)237
- Amperometry; Coulometry; Glycols; Anodic, Kinetics, Nickel electrode 208(1988)247
- Amperometry; Ascorbate; Cucumber juice as carrier 208(1988)291
- Potentiometry; Gold; Computerized flow, Constant-current stripping, Carbon or platinum fibre electrodes 208(1988)301
- Spectrophotometry; Animal tissues; Creatine 208(1988)307
- Spectrophotometry; Chlorine; Waters; Residual 208(1988)317
- Capillary suction pump; Chemical sensors 209(1988)57
- Conductometry; Spectrophotometry; Critical micelle concentrations; Surfactants; Ionic, Nonionic 209(1988)111
- Potentiometry; Enzyme reactor; Penicillin; Pharmaceuticals 209(1988)123
- Spectrophotometry; Gas-diffusion flow-injection; Optimization 209(1988)157
- Amperometry; Pesticides; Fenthion; Fenitrothion 209(1988)205
- Amperometry; Glucose; Lactic acid; Plasma; Computer-controlled 209(1988)231
- Potentiometry; Blood; Urea; Ammonium electrode, Immobilized urease 209(1988)239
- Spectrophotometry; Biological tissues; Phosphorus; Aluminium block digestion 209(1988)299
- Potentiometry; Blood; Lead; Computerized stripping 209(1988)339
- Spectrophotometry; Multicomponent determinations; Partial least squares modeling 211(1988)1
- Spectrophotometry; Monosaccharides; Strongly oxidizing agents; Manganese(VI), Copper(III) 211(1988)99
- H.p.l.c.; Voltammetry; Blood; Uracil derivatives; Urine; Differential pulse, Cathodic stripping 211(1988)175

- Amperometry; Superoxide dismutase activity; Oxygen probe 211(1988)195
- Potentiometry; Calcium selective electrodes 211(1988)213
- Spectrophotometry; Alcoholic beverages; Enzyme reactor; Glucose; NADPH formed 211(1988)281
- Cyclic voltammetry; (Fast scans) 211(1988)287
- Kinetic analysis; Sulphur anions; Catalyzed iodine-azide reaction 211(1988)299
- H.p.l.c.; Extraction; Organophosphorus pesticides; Waters 212(1988)123
- Spectrophotometry; Copper; Wave-guide capillary cell 212(1988)245
- Spectrophotometry; Calcium; Magnesium; Waters; Simultaneous 212(1988)291
- H.p.l.c.; Antibiotics production; Process control; On-line 213(1988)1
- Fluorimetry; Fermentation; Phenylalanine 213(1988)55
- Potentiometry; Proteins; Streaming potential; Affinity column 213(1988)79
- Amperometry; Enzyme electrode; Enzyme reactor; Lactate 213(1988)91
- Amperometry; Electrochemical biosensors; Milk components; Metabolites 213(1988)101
- Amperometry; Enzyme reactor; Xylose; Xylulose 213(1988)139
- Potentiometry; Voltammetry; Fluorimetry; Bioreactors; Yeasts; High-performance, On-line sensors 213(1988)199
- Fluorimetry; Kinetics of analytical bioreactor 213(1988)245
- Heterogeneous sample materials; Immobilized reagents; Review 214(1988)1
- Extraction; Review 214(1988)29
- Ion exchange; At. abs. spectrometry; Emission spectrometry; Extraction; Gas diffusion; On-line separation; Preconcentration 214(1988)41
- At. abs. spectrometry; Emission spectrometry; Review 214(1988)57
- Spectrophotometry; Dispersion behaviour; Impulse/response functions; Fourier algorithm 214(1988)77
- Spectrophotometry; Biotechnology assays; High-sensitivity flow injection; Macromolecules 214(1988)87
- Spectrophotometry; Dispersion 214(1988)97
- Conductometry; Spectrophotometry; Potentiometry; Fluorimetry; Automated micro batch analyser; Microcomputer control 214(1988)107
- Spectrophotometry; Ion exchange; Ammonium ions; Gas-diffusion separation 214(1988)121
- Spectrophotometry; Chemiluminescence; Lactic acid fermentations; In-line monitoring 214(1988)137
- Reflectance spectrometry; Creatinine; Serum; Gas diffusion 214(1988)147
- Spectrophotometry; Fluorimetry; Enzyme reactor; Ethanol; Linear and cyclic 214(1988)161
- Amperometry; Ion exchange; Acetylcholine; Choline; Enzyme reactor; Lipids 214(1988)173
- Spectrophotometry; Iron; Nickel; Doublet peaks 214(1988)197
- Spectrophotometry; Amines; Nitrite; Aromatic primary 214(1988)207
- Spectrophotometry; Ion exchange; Copper; Integrated reaction, Unsegmented 214(1988)217
- Spectrophotometry; Capillary digester; Phosphorus; Waters 214(1988)229
- Kinetic analysis; Spectrophotometry; Ion exchange; Molybdenum; Plants 214(1988)239
- Spectrophotometry; Molasses; Sucrose; Sugar-cane juice 214(1988)247
- Spectrophotometry; Cyanide; Microporous membrane; Thiocyanate 214(1988)259
- Spectrophotometry; Catalysts; Dental alloys; Palladium 214(1988)271
- Spectrophotometry; Ion exchange; Geological samples; Pre-concentration; Uranium 214(1988)279
- Spectrophotometry; Extraction; Potassium; Sodium; Waters; Silica column 214(1988)289
- Spectrophotometry; Membrane-separation; Trace organic compounds 214(1988)299
- Spectrophotometry; Octanol/water partition coefficients; Di-alyzer 214(1988)315
- At. abs. spectrometry; Lead preconcentration; Waters; Flame 214(1988)329
- At. abs. spectrometry; Calcium; Interference removal; Flame 214(1988)339
- Potentiometry; Chlorine; Waters 214(1988)349
- Potentiometry; Computerised data-acquisition; Multi-ion sensor cell 214(1988)359
- Potentiometry; Ammonia; Hydrazine; pH; Power plant steam cycle 214(1988)367
- Cyclic voltammetry; Phenolic compounds; Waters; Derivative 214(1988)375
- Mass spectrometry; Arsenic; Chloroform; Sample introduction 214(1988)385
- Spectrophotometry; Large-bore systems 214(1988)391
- Spectrophotometry; Electrolytic dissolution; Molybdenum; Steels 214(1988)397
- Spectrophotometry; Ammonia; Field monitor; Waters 214(1988)401
- Thermom. analysis; Enzyme Reactor; Pyrophosphate; Thermistor 214(1988)409
- Amperometry; Enzyme reactor; Glutathione 214(1988)415
- At. abs. spectrometry; Biological tissues; Cadmium; Microwave digestion; Zinc 214(1988)421
- Chemiluminescence; Sulphur dioxide; Wines; Young white 214(1988)429
- Spectrophotometry; Fluoride 214(1988)433

- Spectrophotometry; Brine; Calcium; Magnesium; Preconcentration 214(1988)439
- Spectrophotometry; Chloride; Detection limit 214(1988)447
- Spectrophotometry; Glucose; Plasma 214(1988)455
- Anod. stripping voltammetry; Diff. pulse polarography; Trace metals; Waters; Differential-pulse 215(1988)13
- Emission spectrometry; H.p.l.c.; Plasmas; Microliter samples, Peak-shaped input, Inductively-coupled 215(1988)143
- At. abs. spectrometry; Cationic surfactants; Extraction; Waters; Indirect, With tetrathiocyanatocobaltate 215(1988)233
- At. abs. spectrometry; Anaesthetics; Pharmaceuticals; Indirect, Precipitation 215(1988)241
- Spectrophotometry; Membrane reactor; Pulsed reagent introduction 215(1988)277
- Potentiometry; Cyanide; Heterogeneous membrane electrodes; Gas diffusion 215(1988)283
- At. abs. spectrometry; Extraction; Preconcentration; C-18 bonded silica 216(1989)243
- Spectrophotometry; Enzymatic assays; Review 216(1989)257
- Multiple peak recordings; Review 216(1989)275
- Spectrophotometry; Amperometry; Review; Unstable reagents 216(1989)289
- Amperometry; Chemically sterilizable barrier; Fermentor monitoring; Glucose; Oxygen 216(1989)299
- Spectrophotometry; Kinetic analysis; High-purity chemicals; Manganese; Catalytic effect 217(1989)23
- Spectrophotometry; Perchlorate; With Brilliant Green 217(1989)177
- Spectrophotometry; Permanganate 217(1989)183
- Spectrophotometry; Proteins 217(1989)359
- Amperometry; Enzyme reactor; Oxalate; Immobilized oxalate oxidase 218(1989)1
- Emission spectrometry; Boron; Plasmas; Waters; Inductively coupled 218(1989)69
- Spectrophotometry; Body fluids; Urea; Urease reactor 218(1989)151
- Fluorimetry; Enzyme reactor; Isoleucine; Leucine; Valine; Immobilized leucine dehydrogenase 218(1989)161
- Amperometry; Bioelectrodes from plant tissue; Dopamine; Dual electrode 218(1989)281
- Spectrophotometry; Enzyme reactor; Glucose; Characterization of activity 218(1989)291
- Kinetic analysis; Spectrophotometry; Self-modeling curve resolution 218(1989)303
- Ion exchange; Potentiometry; Halides 219(1989)55
- Kinetic analysis; Lactate dehydrogenase; Serum; Multi-detection, Cyclic system 219(1989)191
- Spectrophotometry; Iron; Waters; Wine; Integrated retention 219(1989)231
- Spectrophotometry; Fluoride; Waters 219(1989)329
- Spectrophotometry; Iron; Waters; Sandwich techniques 219(1989)345
- Kinetic analysis; Liquid chrom.; Computer controlled apparatus; Enzyme reactions; Protein; Stopped-flow 220(1989)13
- Kinetic analysis; Gradient chamber; Model for unsegmented 220(1989)23
- Spectrophotometry; Dispersion parameters; Prediction 220(1989)43
- Spectrophotometry; Organic solvents; Water traces 220(1989)55
- Spectrophotometry; Cyanide; Thiocyanate 220(1989)65
- Voltammetry; Alkali metal ions; Alkaline earth metal ions; Glassy carbon fibres 220(1989)269
- Cylindrical cavity-type phase separator; Extraction 220(1989)275
- Spectrophotometry; Parenteral solutions; Sodium hydrogen-sulphite 220(1989)281
- Potentiometry; Photographic fixers; Silver; Indirect 220(1989)287
- Spectrophotometry; Carboxylic acid; Food; Soil; Citric acid 221(1989)19
- At. abs. spectrometry; Iminodiacetate chelate resin; Metal ion; Microcolumn, On-line 221(1989)65
- Potentiometry; Octadecyl isonicotinate; Tridodecylamine; Neutral carrier 221(1989)139
- Spectrophotometry; Ammonia; Urea 221(1989)173
- Spectrophotometry; Controlled-pore glass; Malate dehydrogenase 221(1989)337
- Hunt filter; Impulse-response function 222(1989)151
- Spectrophotometry; Calcium; Lanthanum 222(1989)205
- Spectrophotometry; Fungicide; Malachite green; Manganese ethylenedisithiocarbamate; Periodate 222(1989)269
- Potentiometry; pH; Field effect transistor 222(1989)373
- Laminar flow model; Dialysis 224(1989)13
- Spectrophotometry; Calcium; Magnesium; Diode-array, Arsenazo 224(1989)23
- Amperometry; Fructose; Glucose isomerase; Immobilization 224(1989)31
- Gaseous samples; Flow direction 224(1989)127
- Fluorimetry; Tyrosinase; Tyrosine; Controlled-pore glass 224(1989)133
- Kinetic analysis; Ferroin; Ion-pair extraction 224(1989)169
- Amperometry; Electrocatalysis; Redox gas; Chemically modified electrode 224(1989)305
- Kinetic analysis; Antimony; Molybdenum blue 224(1989)373
- Kinetic analysis; Chlorine; Oxochlorine 224(1989)383
- Potentiometry; Metal cyanide complex; Silver electrode 225(1989)105
- Spectrophotometry; Kinetic analysis; Hydrazine; Phenylhydrazine; Diode-array 225(1989)115

- Spectrophotometry; Cobalt; Ethylenebis(triphenylphosphonium) cation; Extraction 225(1989)123
- Spectrophotometry; Dichromate; Extraction; Tetramethylenebis(triphenylphosphonium) cation 225(1989)241
- Amperometry; Pharmaceutical preparation; Vitamin D 225(1989)247
- Amperometry; Cell cultivation; Enzyme cartridge; Glucose; Lactate 225(1989)253
- Liquid chrom.; Enzyme reactor; Modified electrode; Xylulose; Recirculating flow 225(1989)263
- Chemiluminescence; Hollow-fibre reactor; Hydroxy bile acid; Serum; Bioluminescence 225(1989)273
- Biosensor; Fibre-optic; Fruit juice; Glucose; Wine 225(1989)293
- Ion exchange; Molybdenum; Natural water; Rock 225(1989)313
- Ion exchange; Spectrophotometry; Nitrate 225(1989)331
- Liquid chrom.; Fluorimetry; Aluminium; Micelle 225(1989)339
- Emission spectrometry; Sulphide; Molecular emission cavity analysis 225(1989)359
- Titrimetry; Free acidity; Oil 225(1989)431
- Spectrophotometry; Chlorate; Chlorite 225(1989)437
- Carbon dioxide; Sulphur dioxide; Wine; Gas-diffusion 225(1989)443
- Spectrophotometry; Bismuth; Tetramethylenebis(triphenylphosphonium) cation 225(1989)449
- Dispersion; Volumetric fraction 226(1989)129
- Air; Carbon disulphide; Hollow-fibre membrane 226(1989)171
- Spectrophotometry; Boron; Soil; Ultrasonic leaching 226(1989)221
- Potentiometry; Gradient chamber 226(1989)229
- Potentiometry; Acidity constant; Gradient chamber; Weak acid 226(1989)239
- Solvent extraction; Zone sampling 226(1989)255
- Chemiluminescence; Fibre-optic; NADH; Sensor; Bioluminescence 226(1989)331
- Chemiluminescence; Blood; Creatine kinase; Bioluminescence 227(1989)29
- Chemiluminescence; Immunoassay; Acridinium; Immunoglobulin G 227(1989)97
- Spectrophotometry; Field monitor; Nitrate; River water 227(1989)379
- Amperometry; Copper 228(1990)117
- Spectrophotometry; Sulphate; Water 228(1990)287
- Amperometry; Nitrophenol; Paraoxon; Parathion 228(1990)317
- Preconcentration; Porous electrode 228(1990)323
- Fluorimetry; Epinephrine; Norepinephrine; Trihydroxyindole; Urine 229(1990)27
- Moment analysis; Peak-shape 229(1990)35
- Immunoassay; Adenosine deaminase; Protein; Sandwich-type 229(1990)47
- Amperometry; Conducting organic salt; Glucose; Sensor; Wall-jet cell 229(1990)83
- Spectrophotometry; Multi-component analysis; Nitrophenylhydrazine; Diode-array 229(1990)177
- Hydraulic model; Mathematical model; Process analysis 229(1990)183
- Amperometry; Thiol; Nickel oxide electrode 229(1990)191
- Kinetic analysis; Spectrophotometry; Iron; Leucomalachite green; Peroxodisulphate 230(1990)113
- Spectrophotometry; Aluminium; Xylenol orange; Zinc; Light emitting diode 230(1990)125
- Fluorimetry; Fluorescein-labelled albumin; Protease; Fluoromethylpyridinium salt 230(1990)131
- Fluorimetry; Fluoride; On-line; Ternary complex; Calcein blue, Zirconium 230(1990)137
- Spectrophotometry; Crown ether; Extraction; Lead; Preconcentration 230(1990)157
- Coulometry; Uric acid; Urine 230(1990)195
- Spectrophotometry; Biosensor; Immobilized enzyme 230(1990)199
- Ore leachate; Uranium 230(1990)217
- Conductometry; Waters; Organic pollutants; Titanium dioxide; Film reactor; Immobilized 231(1990)13
- Spectrophotometry; pH; Waters; Lake, Dye reagents 231(1990)21
- Ion-sensitive field effect transistor; pH; Ammonium; Waters; Flow-through 231(1990)53
- Spectrophotometry; Ethanol; Blood; Enzyme reactor; Dialyser; Immobilized, Alcohol dehydrogenase 231(1990)115
- Glutamate; Enzyme reactor; Enzyme electrode; Glutamate oxidase, Immobilized, Hydrogen peroxide 231(1990)121
- Spectrophotometry; Biological membranes; Proteins; Peptides; *o*-Phthaldialdehyde, Post-column reaction, Subcellular particles 231(1990)249
- Fluorimetry; Paracetamol 231(1990)259
- Phosphorimetry; Sample introduction; Continuous, Solid-surface room-temperature 231(1990)289
- Spectrophotometry; Acetyl-coenzyme A; Immobilized, Phosphotransacetylase, CoA-SH, Ellman's reagent 232(1990)281
- Spectrophotometry; Rhenium; Extraction; Crown ethers; Potassium perrhenate, Brilliant Green 232(1990)287
- Chemiluminescence; Chromium; Flavin mononucleotide; Cationic micellar surfactant modifier, Hydrogen peroxide 232(1990)385
- Amperometry; Penicillin; Pharmaceuticals; Expert system; Enzymatic hydrolysis; Validation program 233(1990)65
- Potentiometry; Cyanide; Silver-wire electrode; Gas-diffusion separation; Membrane barrier, Selectivity 233(1990)77
- Liquid chrom.; Liquid scintillation counting; Extraction; Amino acids; Reversed-phase, Phenylthiohydantoin derivatives 233(1990)181

- Chemiluminescence; Electroluminescent compounds; Polynuclear aromatic hydrocarbons; Micelle-encapsulated, 9,10-Diphenylanthracene, Oxide-covered aluminium electrode 233 (1990)199
- Kinetic analysis; Spectrophotometry; Reserpine; Catalysts; Manganese; Continuous-flow analysis, Manganese oxide reactor 233(1990)235
- Liquid chrom.; At. abs. spectrometry; Review; Detectors 234 (1989)3
- Chromatography; Fibre-optic sensors; Optosensing; Ammonia; Phosphate; Thin-layer detector 234(1990)31
- Amperometry; Electrochemical detection; Chemically modified electrodes 234(1989)41
- Ion-selective electrodes; Dynamic response characteristics, Theory 234(1990)49
- Ion-selective electrodes; Iodide; Dynamic response characteristics, Tubular solid-state 234(1990)57
- Mathematical model; Sequential determinations, Sandwich techniques 234(1990)67
- Liquid chrom.; Voltammetry; Wall-jet detector; Rapid scan, Convection/diffusion-controlled, Diffusion-controlled 234 (1989)75
- Immunoassay; Monoclonal antibodies; Immunoglobulin G; Hybridoma cell fermentation 234(1990)83
- Liquid chrom.; Phloroglucinols; Derivative spectroscopy; Photodiode-array detection, Post-column continuous-flow analysis, Computer-aided, Kosins 234(1989)89
- Gel perm. chromatography; Enzyme reactor; Starch; Glycogen; Amylase; Controlled-pore glass beads, Hydrolysis 234 (1989)97
- Lactic acid; Fibre-optic sensors; Biosensors; Dairy fermentation; Kefir culture; Immobilized lactate oxidase 234(1990)107
- Enzyme reactor; Pesticides; Waters; Immobilized acetylcholinesterase, Automated enzyme inhibition, Magnetic device 234(1990)113
- Liquid chrom.; Spectrophotometry; Mass spectrometry; Extraction; Organic pollutants; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119
- Spectrophotometry; Capillary flow cell; Pesticides; Optical fibres 234(1990)141
- Spectrophotometry; Schlieren effect; Diode-array, Dual-wavelength 234(1990)153
- Voltammetry; Magnesium; Serum; Rapid scan square-wave, Thin-film deaerator, Dropping mercury electrode 234(1990) 161
- Spectrophotometry; Amperometry; Potentiometry; Power plants; Process analysis; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167
- Spectrophotometry; Boron; Waters; Preconcentration; Azomethine-H complex 234(1990)199
- Plasmas; Matrix matching; Waters; Salinity; Inductively coupled, Sodium 234(1990)207
- Amperometry; Ethanol; Beverages; Gas-diffusion membrane; Enzyme reactor; Immobilized alcohol dehydrogenase, Hydrogen peroxide 234(1990)213
- Potentiometry; Diethylbarbiturate; Tubular electrode; Pharmaceuticals 234(1990)221
- Kinetic analysis; Amperometry; Oxalate; Photosensitive compounds; Iron (III) 234(1990)227
- Phosphorimetry; Aluminium; Micelle, Water, Dialysis fluid, Ferron chelate 234(1990)233
- Organized media; Micellar media; Insoluble systems; Thorium; Uranium; Rare earth elements; 1-(2-Pyridylazo)-2-naphthol, Arsenazo III 234(1990)239
- Amperometry; Microorganisms; Microbiological sensor; Fungi; Bacteria; *Escherichia coli* 234(1990)247
- Sample introduction; Variable-volume injector; Calibration 234(1990)253
- Cylindrical flow cells; Optical fibres; Cell design theory, Algorithm, Capillary column 234(1990)259
- Amperometry; Enzyme electrode; Dopamine; Norepinephrine; Plant tissue-based electrode, Zucchini-based electrode, Ascorbic acid interference elimination 234(1990)315
- Amperometry; Enzyme electrode; Glucose; Blood; Mediator 234(1990)321
- Fluorimetry; Fluoride; Zirconium-Calcein Blue-fluoride complex, Sensor 234(1990)345
- Spectrophotometry; Phosphorus; Waters; Photodiode detector, Simplex reagent optimization, Silicate interference, Molybdophosphate 234(1990)409
- At. abs. spectrometry; Methadone; Pharmaceuticals 234 (1990)433
- Emission spectrometry; Gasoline; Lubricating oil; Flame 234 (1990)439
- Polarography; Nitrate; Waters; Uranyl ion 234(1990)475
- Chemiluminescence; Fibre-optic sensor; ATP; NADH; Enzyme system; Polyamide membrane 235(1990)243
- Fermentation; Biosensors; Enzyme electrode; Modified graphite electrode, Glucose dehydrogenase, Glucose 235 (1990)265
- Spectrophotometry; Kinetic analysis; Manganese; Waters; Stopped-flow method, Gradient calibration 235(1990)323
- Spectrophotometry; Lysine; Amino acids; Enzyme reactor 235(1990)329
- Spectrophotometry; Computer simulation; Error analysis; Signal processing; Iron(II)-*o*-phenanthroline, Azo dye 235 (1990)337
- Polyphenols; Olive oil; Extraction; Iterative flow direction change 235(1990)441
- Enzyme reactor; Paraoxon; Pesticides; Organophosphorus, Continuous-flow, Stopped-flow, Immobilized acetylcholinesterase 236(1990)267
- Chromatography; Chemiluminescence; Cobalt; Copper; Iron; Ion chromatography, Cation-exchange column 236(1990)287



- Amperometry; Microwave digestion; Phosphorus; Waters 236 (1990)345
- At. abs. spectrometry; Chromium; Preconcentration; Poly(hydroxamic acid) resin 236(1990)469
- Sugars; Lactic acid; Protein; Biomass; Fermentation; Enzyme reactor; On-line 237(1990)165
- Chemiluminescence; Immunoassay; Haptens; Enzyme system; Thyroxine; Horseradish peroxidase, Luminol 237(1990)285
- Sequential injection; Process analysis; Sinusoidal flow 237 (1990)329
- Pattern recognition; Response surface mapping; Automated optimization; Simplex optimization 237(1990)361
- Spectrophotometry; Polyamines; Amine oxidases; Enzyme reactor; Cells; Immobilized, Hydrogen peroxide, Sepharose 237 (1990)391
- Amperometry; Glucose; Blood; Enzyme reactor; Chemically modified electrode, Segmented sample injection, On-line dialysis, Haematocrit 237(1990)405
- Spectrophotometry; Chemiluminescence; Enzyme reactions; Glucose; Serum; Mimetic peroxidase, Hydrogen peroxide, Luminol 237(1990)497
- Spectrophotometry; Urea; Enzyme reactor; Serum; Gas diffusion, Urease 237(1990)503
- Spectrophotometry; Sulphite; Brine; Potassium chloride; Process analysis; 5,5'-Dithiobis(2-nitrobenzoic acid) 238(1990)171
- Spectrophotometry; Aluminium; Waters; Pyrocatechol violet, Field monitor 238(1990)177
- Spectrophotometry; Segmental flow injection; Amino acids, Tea, Ammonia, Waters, Copper, Vanadium 238(1990)183
- Phosphorus; Nitrogen; Waters; Process analysis; Waste-water treatment plant, Biological removal 238(1990)191
- Biosensors; Field-effect transistors; Glucose; Urea; Penicillin; Cephalosporin C; Process analysis 238(1990)201
- Amperometry; Phosphate; Enzyme reactor; Substrate recycling; Co-immobilized purine nucleoside phosphorylase-xanthine oxidase, Co-immobilized purine nucleoside phosphorylase-xanthine oxidase-alkaline phosphatase 238(1990)339
- Spectrophotometry; Enzyme reactor; Lactic acid; Glucose; Serum; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411
- At. abs. spectrometry; Microwave oven digestion; Solid samples; Sewage sludge; Flame, Manifold, Slurries 238(1990)417
- Amperometry; Sulphate; Calibration; Indirect determination 238(1990)431
- Spectrophotometry; Silicate; Waters; Rhodamine B 239 (1990)151
- Liquid chrom.; Extraction; Caffeine; Zidovudine; Beverages; Food; Urine 239(1990)171
- Chemiluminescence; Surfactants; Waters; Sea water; Nonidet AT 85, Rhodamine B sensitizer 239(1990)189
- Chemiluminescence; Steroids; Cortisone; Corticosterone; Hydrocortisone; Progesterone; Testosterone; Sulphite oxidation, Potassium bromate 239(1990)195
- Spectrophotometry; Flow gradient; Unsegmented flow, Concentration gradient, Metal complexes, Acidity constants 239 (1990)211
- Spectrophotometry; Potentiometry; Voltammetry; Detectors; Ion-sensitive field effect transistors; Impulse-response functions 239(1990)245
- Fluorimetry; Alanine; Enzyme reactor; Serum; Beverages; Immobilized poly(vinyl alcohol) beads 239(1990)307
- Raman spectrometry; Spectrophotometry; Dimethyldiphenylbenzidine; Electrolysis; Electrooxidation; Homogeneous solution, Time-resolved 240(1991)329
- Spectrophotometry; Calibration; Interferences; Curvature correction, Gradient ratio calibration, Chloride, Phosphate 241 (1990)15
- Teniposide; Blood serum; Multivariate calibration 241(1990)23
- Optimization; Ammonia; Indophenol blue, Simplex method, Powell method 241(1990)31
- Enzyme electrode; Mathematical modelling; Single-line, Kinetics 241(1990)43
- Enzyme electrode; Mathematical modelling; Single-line, Simulation 241(1990)55
- Conductimetry/oscillometry; Organohalogens; Combustion; Preconcentration; Air 241(1990)71
- Diode-array detection; Nickel; Zinc; Pyridylazonaphthol 241 (1990)153
- Chromatography; Ion exchange; Potentiometry; Ion-selective electrodes; Calcium 242(1991)65
- Amperometry; Glucose; Foods; Soft drinks; Enzyme electrodes; Hydrogen peroxide, Membrane 242(1991)91
- Spectrophotometry; Arylamines; Sulphonamides; Diazotization, Coupling, Micellar medium 242(1991)143
- Kinetic analysis; Spectrophotometry; Fluorimetry; Review; Stopped-flow technique 242(1991)147
- Kinetic analysis; Oxalate; Urine; Enzyme reactor; Double stopped flow 242(1991)179
- Cyclic voltammetry; Diff. pulse voltammetry; Plant tissue-vitreous carbon electrodes; Biosensors; Mushroom, Potato, Horseradish 242(1991)259
- Solid samples; Sample introduction; Ultrasonic irradiation; Iron; Plant materials; Direct introduction, Leaching 242 (1991)283
- Amperometry; Hydrogen ion; Hydroxyl ion; Ion-selective electrodes; Plasticised PVC membrane electrode 243(1991)55
- Amperometry; Chemically modified electrodes; Carbohydrates; Nickel, Glassy carbon 243(1991)61
- At. abs. spectrometry; Copper; Aluminium alloys; Electrolytic dissolution 243(1991)65
- Chemiluminescence; Vitamin B<sub>12</sub>; Luminol, Hydrogen peroxide, Cobalt 243(1991)127
- Electron-capture detection; PTFE tape separator; PTFE tubing separator; Two-phase separation, Free chlorine 243(1991) 131

- Fluorimetry; Fructose; Enzyme reactor; Mannitol dehydrogenase 243(1991)183
- Spectrophotometry; Ascorbic acid; Vitamin C tablets 243(1991)187
- Fluorimetry; Hydrogen peroxide; Photoinduced fluorogenic reactions; 4-Hydroxyphenylacetic acid 243(1991)207
- At. abs. spectrometry; Catalysts; Mercury; Copper salts, Cadmium salts, Continuous microflow, Cold vapour 243(1991)247
- Potentiometry; Organic compounds; Nickel oxide electrode 243(1991)279
- Fluorimetry; Diquat; Herbicides 244(1991)99
- Fluorimetry; Mannitol; Immobilized mannitol dehydrogenase, Poly(vinyl alcohol) beads 244(1991)105
- Spectrophotometry; Sulphate; Waters; In-line preconcentration, Anion-exchange resin, Methylthymol blue-barium complexation 244(1991)109
- Amperometry; Cyclic voltammetry; Liquid chrom.; Carbohydrates; Amino acids; Constant-potential amperometric detection, Metallic electrodes 244(1991)169
- Immunoglobulin G; Affinity chromatography; Mouse IgG 245(1991)1
- At. abs. spectrometry; Gold; Ores; Preconcentration; Amberlite XAD-8 resin 245(1991)7
- Fluorimetry; Nitrogen compounds; Creatinine; Ammonia; Enzyme reactor; Serum, Amino acids 245(1991)89
- Fluorimetry; Reserpine; Photochemical derivatization; Pharmaceutical formulations 245(1991)101
- Spectrophotometry; Chloride; Bromide; Waters; Mercury(II) and silver thiocyanate minicolumns 245(1991)115
- Ion exchange; Biosensors; Glucose sensors; Poly(ester-sulfonic acid) coatings 245(1991)139
- Voltammetry; Ion-sensitive field-effect transistors; Potassium; Serum; Urine; Wall-jet cell, Silicone-rubber membrane 245(1991)159
- Conductimetry/oscillometry; Gas diffusion; Nitrogen; Waters; Ammonia, Nitrate, Nitrite 245(1991)183
- Alloys; Plasmas; Stainless steels; Inductively coupled, Multi-elemental analysis, Flow-through electrolytic cell 245(1991)211
- Copper; Extraction; Segmenter; Continuous flow, Dual channel 245(1991)251
- Molecular weight sensing; Polyethylene glycol; Refractive index gradient detection 246(1991)241
- Chromatography; Ion exchange; Cyclic voltammetry; Alkaline earth metal ions; Alkali metal ions; Polyaniline-Nafion electrode 246(1991)275
- Amperometry; Biosensors; Enzyme electrodes; Glucose; Glucose dehydrogenase, Benzene-1,4-dicarboxamide *N,N*-bis(benzophenoxazinyl) derivative 246(1991)283
- Cyclic voltammetry; Amperometry; Glassy carbon electrodes; Microelectrode arrays; TTF-TCNQ, Hydroquinone, Dopamine, Ascorbic acid 246(1991)315
- Radiometric detectors; Dispersion 246(1991)325
- Radiometric detection; Radiorelease; Vanadium; Radiosilver release 246(1991)329
- Spectrophotometry; Dyes; Surfactants; Quaternary ammonium, Sodium dodecyl sulphate 246(1991)333
- Amperometry; Diffusion coefficient 246(1991)341
- Chemiluminescence; Amines; Amino acids; Fenton's reagent; Schiff bases; Phenylacetaldehyde, Sodium bis(2-ethylhexyl)sulphosuccinate reversed micellar solution 247(1991)27
- Spectrophotometry; Chemiluminescence; Biomass; Fermentation; Glucose; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45
- Laminar dispersion; Mathematical modelling; Parallel plate laminar flow; Convective-diffusion equation, Peclet number, Concentration distribution 247(1991)51
- Spectrophotometry; Enzyme reactor; Malic acid; Wines; Stopped-flow, Malate dehydrogenase, Malolactic fermentation 247(1991)61
- Extraction; Phase separator; Coaxial, On-line, Benzyl alcohol, Carbon tetrachloride 247(1991)67
- Amperometry; Iodide; Pneumatoamperometric detection, Oxidation, Permanganate auxiliary oxidant 247(1991)73
- Liquid chrom.; Cyclic voltammetry; Amperometry; Carbohydrates; Sugars; Nickel-catalysed glassy carbon electrode 248(1991)117
- Auto-by-cross correlation; Photoionization spectroscopy; Signal processing; Transient signals; Transient photocurrent, Laser-excited photoionization 248(1991)195
- Fluorimetry; Spectrophotometry; Iodate; Iodide; Cerium(IV) catalytic reduction, *p*-Aminophenol colour reaction 248(1991)219
- Emission spectrom.; Plasmas; Preconcentration; Sea water; Trace metals; Urine; Waters; Inductively coupled, Chelating resin 248(1991)241
- Flow cells; Ion-selective field-effect transistors; Wall jet cell, Flow-through cell, ISFET, CHEMFET 248(1991)307
- Amperometry; Enzyme reactor; Nicotinamide coenzymes; Immobilized, Amplification, Substrate recycling, Hydrogen peroxide 248(1991)345
- Fluorimetry; Biosensors; Fibre-optic sensor; Foods; Glutamate; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351
- Fluorimetry; Cell permeabilization; Formate dehydrogenase activity; Intracellular enzyme activity; Yeast cells; *Candida boidinii* 248(1991)371
- Amperometry; Air; Alcohols; Enzyme reactor; Gas detection; Hydrogen peroxide; Sulphur dioxide; Continuous monitoring, Platinum electrode 248(1991)379
- Amperometry; Potentiometry; Air; Chlorine; Gas detection; Hydrogen chloride; Continuous monitoring 248(1991)391
- Spectrophotometry; Extraction; Partition coefficients; Octanol-water 248(1991)493
- Fluorimetry; Biosensors; Fermentation; Field-effect transistors; Process analysis; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25
- Spectrophotometry; Bioprocess monitoring; Fermentation; Glucose ammonia proteins; Process analysis; Diode-array, Stopped-flow 249(1991)77

- Liquid chrom.; Fermentation; Process monitoring 249(1991)87
- Spectrophotometry; Acetate; Fermentation; Phosphate; Process analysis; *E. coli* 249(1991)101
- Turbidimetry; Bioprocess monitoring; Fermentation; Process analysis; Proteins; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113
- Bioreactors; Fermentation; Membrane modules; Penicillin fermentation; Process monitoring; Ammonium, Glucose 249(1991)123
- Spectrophotometry; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137
- Spectrophotometry; Aldehydes; Enzyme reactor; Immobilized yeast aldehyde dehydrogenase, Controlled-pore glass 249(1991)145
- Chemiluminescence; DNA; Enzyme reactor; Biotinylated glucose oxidase-labelled DNA probes, Hydrogen peroxide 249(1991)155
- Immunoassay; Bioreactors; Enzyme-linked immunosorbent assay; Process monitoring 249(1991)163
- Amperometry; Enzyme reactor; Glucose; Double injection, Oxygen-permeable reaction coil, Stopped-flow 249(1991)451
- Fluorimetry; Liquid chrom.; Bile acids; Enzyme reactor; Serum; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461
- Chemiluminescence; Manganese; Sea water; Waters;  $\delta$ -Hydroxyquinoline concentration, 7,7,8,8-Tetracyanoquinodimethane 249(1991)469
- Spectrophotometry; Turbidimetry; Plant materials; Sulphur; Waters; Two-line manifold 249(1991)479
- Amperometry; Voltammetry; Nafion-coated electrodes; Pharmaceuticals; Promethazine; Cations 249(1991)489
- Fluorimetry; Spectrophotometry; Raman spectrometry; I.r. spectrometry; Mass spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157
- Amperometry; Biosensors; Chemically modified electrodes; Enzyme reactor; Immobilized, Selective detection 250(1991)203
- Fluorimetry**
- Flow system; Micellar-catalyzed reaction; Pyridoxal 201(1987)67
- Blood; Triethylenethiophosphoramidate 201(1987)77
- H.p.l.c.; Flavins; Waters; Solid-phase ion-pair extraction 201(1987)127
- Plasma; Salicylate 201(1987)335
- Flow system; Spectrophotometry; Europium; On-line reduction 201(1987)339
- Flow system; Blood; Enzyme reactor; Lactate; Immobilized 201(1987)351
- Lubricating oils; Waters; Zinc 202(1987)207
- Extraction; Lithium; 14-Crown-4-derivative 203(1987)85
- Flow system; Amines; Secondary, Non-aqueous 204(1988)343
- Fibre-optic sensor; Oxygen; Decay time 205(1988)1
- H.p.l.c.; Amino acids; Tryptophan; Photochemical reactor 205(1988)7
- H.p.l.c.; Amino acids; Carboxylic acids; Peptides; Laser-induced, Selective derivatization 205(1988)15
- H.p.l.c.; Disulphides; Rat tissues; Thiols; Pre-column derivatization 205(1988)29
- H.p.l.c.; Thiol-bimane derivatives; Reversed-phase 205(1988)43
- Flow system; Intracerebral dialysis; Lactic acid; Rat brains; Enzymatic 205(1988)53
- Biomembranes; Lindane; Quenching 205(1988)61
- Adriamycin; Binding; Cisplatin; Tumorigenic cells; Terbium luminescence 205(1988)77
- Bacterial peptidoglycan degradation; Lysozyme activities; Enzymatic synthesis 205(1988)89
- Enzyme activities; Plasma; Microlitre volumes 205(1988)97
- DNA; Quinolizinium salts 205(1988)105
- Micellar media; Quinolizinium salts 205(1988)117
- Micellar media; Styryl derivatives of quinolizinium salts; Solvatochromic effect 205(1988)129
- Micellar media; Pharmaceuticals; Procaine; Solvent, Synchronous 205(1988)139
- Indole-type auxins; Three-dimensional, Synchronous, Derivatization 205(1988)149
- Calmodulin; Förster energy transfer; Protein dynamics; Transferrin 205(1988)161
- Flow system; Amino acids; Bioluminescence; Enzyme reactor; Serum; Urine; Branched-chain 205(1988)229
- Immunoassay; Hepatitis B surface antigen 205(1988)239
- Chloroquine; Extraction; Plasma 206(1988)339
- Selenium; Sulphur sample 206(1988)345
- Anionic surfactants; Extraction; Waters; Ion-pair 206(1988)351
- Aldose reductase; Tissue samples 206(1988)357
- Electroluminescence; Trace organic fluorescent compounds; Oxide-covered aluminium electrode 207(1988)195
- Guanine; Nucleotides, Nucleosides 207(1988)243
- Pyrene; Ternary cyclodextrin complexes 207(1988)251
- Micelles; Review; Reversed 208(1988)1
- Air; Fibre-optic sensor; Sulphur dioxide 208(1988)53
- Catecholamines; 1,2-Diarylethylenediamines 208(1988)59
- Electroluminescence; Hydrogen peroxide; Cathodic, Terbium(III)-doped oxide-covered tantalum electrode 208(1988)69
- Spectrophotometry; Ammonium; Urine; Gas-diffusion membrane, pH indicator 208(1988)81
- H.p.l.c.; Carbon black extract; Polynuclear aromatic hydrocarbons; Shpol'skii effect 208(1988)183
- H.p.l.c.; Proteins; Serum; Time-resolved laser 208(1988)255
- Semiconductor laser; Xanthine; Xanthine oxidase; Near-infrared 208(1988)325

- Electroluminescence; Europium; Cathodic, Oxide-coated aluminium electrode 209(1988)165
- Calcium; Serum 209(1988)303
- Coumarin; Optical-fibre sensor; Near-infrared semiconductor laser; Second-harmonic emission 209(1988)327
- H.p.l.c.; Methoxypsoralen 211(1988)333
- H.p.l.c.; Alkylamines; Post-column derivatization 212(1988)155
- Oxygen sensor; Energy transfer-based optical 212(1988)261
- Calcium; Fibre-optic sensor 212(1988)267
- Dysprosium; Enhancement by alkaline earth metal ions 212(1988)285
- Fermentation; Microorganisms; Immobilized 213(1988)47
- Flow system; Fermentation; Phenylalanine 213(1988)55
- Potentiometry; Voltammetry; Flow system; Bioreactors; Yeasts; High-performance, On-line sensors 213(1988)199
- Flow system; Kinetics of analytical bioreactor 213(1988)245
- Flow system; Conductometry; Spectrophotometry; Potentiometry; Automated micro batch analyser; Microcomputer control 214(1988)107
- Flow system; Spectrophotometry; Enzyme reactor; Ethanol; Linear and cyclic 214(1988)161
- Naphthyl phenylloxazole; Optical multiplexing; Two-photon excited, Fibre-optic star coupler 215(1988)203
- H.p.l.c.; Aromatic aldehydes; 1,2-Diamino-4,5-ethylenedioxybenzene reagent 215(1988)259
- Dicarbonyl compounds; 1,2-Diamino-4,5-methylenedioxybenzene reagent 215(1988)267
- Dysprosium; EDTA/Tiron/surfactant 215(1988)331
- Anthracene; Benzocarbazole; Solvent effect, Synchronous 215(1988)347
- Potentiometry; Calcium-selective optrode; Langmuir-Blodgett film 217(1989)11
- H.p.l.c.; Chemiluminescence; Aminocoumarins 217(1989)11
- Fibre-optic chemical sensor; Pressurized membrane indicator 217(1989)249
- Reducing carbohydrates 217(1989)263
- Zinc 217(1989)363
- Protein traces; Terbium chelate label 218(1989)143
- Flow system; Enzyme reactor; Isoleucine; Leucine; Valine; Immobilized leucine dehydrogenase 218(1989)161
- Gallium; Synchronous derivative 218(1989)167
- Europium; Samarium; Laser-excited, Time-resolved, Labelling of biomolecules 219(1989)67
- Silica; Uranium; Time-resolved laser 219(1989)181
- Carbon dioxide; Fibre-optic sensor 219(1989)223
- Fluoride; Optical-fibre sensor 220(1989)75
- Lectin; Umbelliferol sugars; Quenching 220(1989)225
- Lanthanide ions; Laser-induced, Time-resolved 220(1989)235
- Reflectance spectrometry; Fibre optic; In situ; Poly(vinyl chloride); Sensor; Trinitrotoluene 221(1989)1
- Liquid chrom.; Methylglyoxal; Mouse blood 221(1989)163
- Biosensor; Glucose; Glucose oxidase 221(1989)195
- Pattern recognition; Gas chromatography; Mass spectrometry; Oil-spill identification 222(1989)135
- Liquid chrom.; Boronic acid derivative; Brassinosteroid 222(1989)201
- Chinese hamster; Fluoronitro benzoxadiazole; Ovary cell; Phthalaldehyde 223(1989)299
- Liquid chrom.; Amine; Dihydrodimethoxymethyloxyquinoxalinecarbonyl chloride 223(1989)319
- Flow system; Tyrosinase; Tyrosine; Controlled-pore glass 224(1989)133
- Thorium; Salicylaldehyde carbohydrazone 224(1989)153
- Kinetic analysis; Standard addition 224(1989)225
- Fibre optic; Photodiode array 224(1989)235
- Kinetic analysis; Alizarin garnet R; Aluminum 224(1989)363
- Flow system; Liquid chrom.; Aluminium; Micelle 225(1989)339
- Blood; Cyanide; Urine; Taurine; Naphthalenedialdehyde 225(1989)351
- Liquid chrom.; Acetylcarbethoxycysteine; Urine 226(1989)109
- Immunoassay; (Microspot) 227(1989)73
- Immunoassay; Estrogen; Laser 227(1989)129
- Immunoassay; Biosensor; Fibre-optic; Phenytoin 227(1989)135
- Phosphorimetry; Coumarinsulphonyl chloride; Synthesis 227(1989)145
- T.l.c.; Phosphorimetry; Amino acid; Coumarinsulphonyl chloride; Ion-pair 227(1989)155
- Hydrolysis; Methoxyquinoline; Photo-excitation; Ethanol 227(1989)165
- Liquid chrom.; Argon-ion laser; Polynuclear aromatic hydrocarbon 227(1989)173
- Indole; Lanthanide; Quenching 227(1989)181
- Liquid chrom.; Adenine derivative; Chloroacetaldehyde; Chlorofluorobenzyladenine; Plasma 227(1989)189
- T.l.c.; Blood; Glutathione 227(1989)203
- Blood serum; Calcein blue; Magnesium 227(1989)211
- Food; Micelle; Zinc 227(1989)219
- Microscopy; Mitochondrial membrane; Yeast 227(1989)227
- Densitometry; Photomicrography; Tissue 227(1989)235
- Tissue 227(1989)243
- Platelet antibodies; Standardization 227(1989)251
- Chemiluminescence; Tissue; Charge coupled device 227(1989)257
- Diethylaniline; Exciplex; Indole; Liposome; Pyrene 227(1989)267
- Cell; Metabolism; Methylumbelliferolxyloside 227(1989)273
- Immunoassay; Amphetamine; Methamphetamine; Urine; Polarization 227(1989)287
- Multipass cuvette; Rhodamine-B 227(1989)291

- Cyclodextrin; Retinal complex; Room temperature 227(1989)297
- Alkyl lysophospholipid; Diphenylhexatriene 227(1989)303
- Aminochlorobenzophenone; Chlordiazepoxide hydrochloride 227(1989)309
- Benzodiazepine 227(1989)311
- Benzodiazepine; Tofisopam 227(1989)315
- Mefloquine; Photochemical reaction; Antimalarial 227(1989)325
- Ammonia; Biosensor; Fibre-optic; Urea 227(1989)387
- Liquid chrom.; Brassinosteroid; Dansylaminophenylboronate 228(1990)101
- Radiometry; Aminosilane; Protein; Thermally pretreated glass 228(1990)107
- Carbaryl; Fuberidazol; Pesticide mixture; Warfarin; Variable-angle scanning 228(1990)293
- Liquid chrom.; Cyanoisindole; Steroidal primary alcohols 228(1990)307
- Liquid chrom.; Amino acid; Fibre optic; Laser-induced 229(1990)3
- Flow system; Epinephrine; Norepinephrine; Trihydroxyindole; Urine 229(1990)27
- Immunoassay; Sensor; Immobilization, Fibre optic 229(1990)169
- Electrophoresis; Polynuclear aromatic hydrocarbon 229(1990)295
- Flow system; Fluorescein-labelled albumin; Protease; Fluoromethylpyridinium salt 230(1990)131
- Flow system; Fluoride; On-line; Ternary complex; Calcein blue, Zirconium 230(1990)137
- Quenching; Skatole; Pyridine 230(1990)213
- Terbium; Samarium; Europium; Hexafluoroacetylacetone-triethylphosphine oxide-Triton X-100 231(1990)157
- Gas sensor; Ammonia; Serum; Fibre-optic sensor; Fluoresceins 231(1990)231
- Flow system; Paracetamol 231(1990)259
- Diphacinone; Europium; Yttrium; Rare earth oxides; Fluorescence enhancement, Ammonia 231(1990)295
- Spectrophotometry; I.r. spectrometry; N.m.r. spectrometry; Fulvic acids; Laurentian, Colour origin 232(1990)43
- Fulvic acids; Paramagnetic metal ions 232(1990)77
- Polynuclear aromatic hydrocarbons; Shpol'skii technique; Mussels; Terns; Biological samples 232(1990)245
- Fluorescein; Dichlorofluorescein; Variable-angle spectrometer, Simultaneous determination 233(1990)159
- Shpol'skii technique; Polynuclear aromatic hydrocarbons; Computerized data acquisition and processing 233(1990)207
- Kinetic analysis; Hydrogen peroxide; Glucose; Homovanillic acid; Peroxidase-like catalysed oxidation; Manganese tetrakis (sulphophenyl)porphyrin-catalysed oxidation 233(1990)299
- Gas chromatography; Nitrobenzene; Cyclohexanone; Naphthalene vapour, Indirect fluorescence detection, Quenching constants 233(1990)303
- Liquid chrom.; Glyphosate; Aminomethylphosphonic acid; Pesticides; Waters; Post-column fluorogenic labelling 233(1990)311
- Aluminium; Surfactant vesicles; Quinolin-8-ol-5-sulphonic acid; Water, Dialysis fluid 234(1990)181
- Liquid chrom.; Phthalaldehyde; Fluorescamine; Triton; Cyclodextrin; Pharmaceuticals 234(1990)187
- Liquid chrom.; Polycyclic aromatic hydrocarbons; Waters; Air; Reversed-phase 234(1990)269
- Flow system; Fluoride; Zirconium-Calcein Blue-fluoride complex, Sensor 234(1990)345
- Aza-aromatics; Trifluoroethanol; Hydrogen-bonding solvent, Fluorescence enhancement 234(1990)353
- Enzyme reaction; Phenol sulphotransferase; Hydroxybenzaldehyde substrate, Dexamethasone 234(1990)359
- Immunoassay; Biosensors; Fibre-optic sensor; Benzo[a]pyrene tetraol; Laser excitation 236(1990)237
- Amylase; Fluorescence energy transfer, Double-labelled soluble starch, Fluorescein, Procion Red 236(1990)251
- Carbazole; Anthracene; Anthraquinones; Zone melting; Biphenyl medium, Synchronous 236(1990)505
- Enzyme reactions; Lipid membrane; Transduction; Fluorescence microscopy; Nitrobenzoxadiazolephosphatidylethanolamine fluorophore, Acetylcholinesterase, Acetylcholine substrate 237(1990)253
- Waters; Nitro compounds; Explosives; Trinitrotoluene; Dinitrotoluene; Hexahydrotrinitrotriazine; In situ optical detection, Fluorescence quenching 237(1990)265
- Fibre-optic sensor; Cyclodextrin; Immobilized, Inclusion complex, Anilinonaphthalene sulphonates 237(1990)485
- Uranium; Waters; Geological samples; Time-resolved laser-induced, Complexing media, Mineral phase 238(1990)291
- Chemiluminescence; Phosphorimetry; Aluminium; Milk powder; Liquid room temperature, Ferron, Vesicles 238(1990)297
- Europium; Fluorescence enhancement; Terbium, Phenanthroline, Benzoylacetone 238(1990)307
- Fibre-optic sensor; Immune reactions; Antigens, Antibodies, Evanescent wave detection, Skew rays 238(1990)317
- Waters; Sea water; Polycyclic aromatic hydrocarbons; Pulsed-laser, fibre-optic-based system, Decay times, Time-resolved 239(1990)45
- Flow system; Alanine; Enzyme reactor; Serum; Beverages; Immobilized poly(vinyl alcohol) beads 239(1990)307
- Flow system; Kinetic analysis; Spectrophotometry; Review; Stopped-flow technique 242(1991)147
- Kinetic analysis; Ascorbic acid; Vitamin pills; Fruit juice; o-Phenylenediamine 243(1991)89
- Liquid chrom.; Solubilization; Benzo[a]pyrene; Polynuclear aromatic hydrocarbons; Coal washing water 243(1991)115



Aluminium; Waters; Eriochrome Red B, Hexamethylene-tetramine 243(1991)121

Flow system; Fructose; Enzyme reactor; Mannitol dehydrogenase 243(1991)183

Flow system; Hydrogen peroxide; Photoinduced fluorogenic reactions; 4-Hydroxyphenylacetic acid 243(1991)207

Flow system; Diquat; Herbicides 244(1991)99

Flow system; Mannitol; Immobilized mannitol dehydrogenase, Poly(vinyl alcohol) beads 244(1991)105

Kinetic analysis; DNA hybridization kinetics; Fluorescence polarization; Labelled oligonucleotides, Mismatches 244(1991)207

Flow system; Nitrogen compounds; Creatinine; Ammonia; Enzyme reactor; Serum, Amino acids 245(1991)89

Flow system; Reserpine; Photochemical derivatization; Pharmaceutical formulations 245(1991)101

Europium; Samarium; Rare earth elements; Fluorescence enhancement, Gadolinium, Dibenzoylmethane-diethylamine 245(1991)109

Amines; 2,3-Diphenylquinolinizinium bromide 245(1991)217

Fibre-optic sensor; Immunosensors; Haptens;  $F_{(ab)}$  antibody fragments 246(1991)55

Europium; Minerals; Rare earth minerals; Gadolinium fluorescence enhancer 247(1991)37

Tryptophan; Phenylglyoxal, Fluorogenic reagent 248(1991)213

Flow system; Spectrophotometry; Iodate; Iodide; Cerium(IV) catalytic reduction, *p*-Aminophenol colour reaction 248(1991)219

Flow system; Biosensors; Fibre-optic sensor; Foods; Glutamate; Pharmaceuticals; Oxygen optrode, Carbon dioxide optrode 248(1991)351

Liquid chrom.; Enzyme reactor; Sorbitol dehydrogenase 248(1991)367

Flow system; Cell permeabilization; Formate dehydrogenase activity; Intracellular enzyme activity; Yeast cells; *Candida boidinii* 248(1991)371

Nucleic acids; Terbium; Phenanthroline, DNA, RNA 248(1991)589

Flow system; Biosensors; Fermentation; Field-effect transistors; Process analysis; Thermistors; Ethanol, Mannitol, Penicillin, Urea, Sugars 249(1991)25

Flow system; Spectrophotometry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Liquid chrom.; Alkaloids; Benzophenanthridine; Papaveraceae 249(1991)231

Bacterial cultures; Fermentation; Mathematical models; Physiological state; Process analysis; *Clostridium acetobutylicum*, NADH fluorescence 249(1991)279

Fibre-optic sensor; Polymer swelling; Salt concentrations; Optical displacement, Sulphonated dextran, Sulphonated polystyrene 249(1991)373

Flow system; Liquid chrom.; Bile acids; Enzyme reactor; Serum; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461

Flow system; Spectrophotometry; Raman spectrometry; I.r. spectrometry; Mass spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157

## G

### Gas chromatography

Petroleum fractions; Precalculation of optimum column temperature 201(1987)207

H.p.l.c.; Isoalkanes; Retention indices; General model 201(1987)217

Hydrogen; Pyrolysis, Solid samples 202(1987)251

Mass spectrometry; Petroleum hydrocarbons; Solid-phase extraction cartridges 204(1988)135

Mass spectrometry; Trichothecenes; Heptafluorobutyrate esters, Negative-ion chemical ionization, Tandem 204(1988)233

At. fluor. spectrometry; Air; Mercury species; Cold-vapour 208(1988)151

Mass spectrometry; Extraction; Pendimethaline; Waters 208(1988)331

Camomile extract; Component number; Capillary, Statistical estimation 212(1988)165

Alkylbenzenes; Structure retention relationship 212(1988)317

Fermentation broths; Volatile metabolites 213(1988)11

Potentiometry; Voltammetry; Microbial reaction rates; Sediment suspensions; Apparatus 213(1988)221

Acetaldehyde; Ethyl acetate; Fermentation; Fusel alcohols; Gas-permeable membrane; Alcoholic fed-batch 213(1988)231

Column dead time; Capillary 215(1988)311

H.p.l.c.; T.l.c.; Review; Supercritical-fluid 216(1989)109

Conductometry; Alkanes; Hydrogen; Semiconductor gas sensors; Simplex optimization 216(1989)147

Carbon dioxide; Carbon monoxide; Methane; Temperature programmed decomposition 217(1989)197

Annular denuder tube; Nitrobenzene; Nitrogen atmospheres; Electron-capture detection 217(1989)289

Mass spectrometry; T.l.c.; Pattern recognition; Spatial resolution; Secondary ion, Phase-transition matrix 218(1989)217

Spectrophotometry; H.p.l.c.; Tetraalkylammonium sulphonates 218(1989)241

Polystyrene; Styrene monomer; Toluene solvent, Headspace 218(1989)345

H.p.l.c.; Mass spectrometry; Resolution of overlapping peaks; Statistical and empirical functions 219(1989)257

Mass spectrometry; Air; Diesel particulate; Polynuclear aromatic hydrocarbon; Nitrated polynuclear aromatic hydrocarbon 221(1989)53

- Methylmercury; Natural waters; Preconcentration 221(1989)259
- Principal components; Dinoflagellate toxin; Mussel 222(1989)35
- Alkylsilane; Blood serum; Fluoride 222(1989)121
- Pattern recognition; Fluorimetry; Mass spectrometry; Oil-spill identification 222(1989)135
- Alkylbenzenes; (Retention data, Physical property, Topological property) 223(1989)161
- Barium sulphophthalocyanines; Cobalt phthalocyanine; Polycyclic aromatic hydrocarbon; Adsorption, Thermal desorption 224(1989)1
- Mass spectrometry; Isotope ratio; Metal chelates 224(1989)83
- Apolane-87; Reference phase; Squalane 225(1989)193
- Opto-acoustic spectroscopy; Hydrocarbon; Mercury 226(1989)99
- Simultaneous distillation-extraction; Volatile component, Natural product 226(1989)183
- Mass spectrometry; Atrazine; Herbicides; Water; Ion-trap 228(1990)69
- At. abs. spectrometry; Alkyllead; Grass; Speciation; Tree leaves 228(1990)77
- Emission spectrometry; Biological sample; Methylmercury; Headspace, Microwave-induced plasma 228(1990)93
- Aminomethylphosphonic acid; Glyphosate; Herbicide; Nitrogen-phosphorus detector 229(1990)277
- Ethylene; Fruits; Field effect transistor; Semiconductors 231(1990)93
- Dye adsorption; Methyl red; Sterchamol; Retention mechanism 232(1990)413
- Plasmas; Solvent venting interface; Microwave-induced 233(1990)149
- Fluorimetry; Nitrobenzene; Cyclohexanone; Naphthalene vapour, Indirect fluorescence detection, Quenching constants 233(1990)303
- Enantiomers; Cyclodextrins; Chiral stationary phase 234(1990)365
- Methylmercury; Waters; Sea water; Plasmas; Microwave-induced plasma detection, Headspace, Dithiocarbamate resin preconcentration, Speciation 234(1990)417
- Mass spectrometry; Biomarkers; Hopanes; Petroleum; Triterpanes; Crude oil 235(1990)375
- Extraction; Pharmaceuticals; Urine; Drugs of abuse, Column lifetime and performance, Fused-silica capillary columns 236(1990)115
- Liquid chrom.; Organic acids; Biological fluids; Serum; Urine; Extraction 236(1990)121
- Mass spectrometry; Extraction; Waters; Herbicides; Solid-phase extraction, Well water 236(1990)141
- Liquid chrom.; Extraction; Waters; Solid-phase extraction, Membrane, Filtration, Pesticides, Polychlorinated biphenyls, Phthalates 236(1990)157
- Liquid chrom.; Mass spectrometry; Pesticides; Pyrimidinol; Corn 236(1990)173
- Arson; Fires; Sample preparation, Headspace analysis, Liquid-liquid extraction, Adsorption/elution, Distillation 236(1990)183
- Tobacco smoke; Cigarettes; Alkanes, Hydrocarbons, Particulate matter 236(1990)213
- Sample preparation; Insects; Pheromones; Capillaries, Micro-reactor 236(1990)227
- Review; Waters; Trace organic compounds; Preconcentration; Liquid-liquid extraction, Solid sorbents, Headspace techniques, Gas extraction, Volatile compounds 237(1990)1
- Mass spectrometry; Chloramphenicol; Urine; Eggs; Biological materials; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61
- Carboxylic acids; Waters; Nitrogen-selective detection, 2-Nitrophenylhydrazides 237(1990)215
- Polycyclic aromatic hydrocarbons; Soils; Spiking procedure, 2-Methoxyethanol extraction 237(1990)451
- Liquid chrom.; Process analysis; Deferred standard 238(1990)17
- Process analysis; Deferred standard technique 238(1990)129
- Concentration profile measurements; Distillation column control; Process analysis; Parameter estimation, Water-methanol-isopropanol 238(1990)139
- Process analysis; Petroleum reforming; Octane number 238(1990)149
- Nitrogen; Nuclear fuels; Uranium nitride; Plutonium nitride; Oxidation, Glove-box 239(1990)107
- Isocitric acid; Malic acid; Citric acid; Fruit juice; Lemon juice; Adulteration, Acyl esters 239(1990)165
- Correlation chromatography; Headspace analysis; Ethylene-propylene copolymer; Peak resolution 239(1990)317
- I.r. spectrometry; Environmental samples; Pesticides; Polynuclear aromatic hydrocarbons; Fourier transform, Low temperature 240(1990)205
- I.r. spectrometry; Absorption coefficients; Vapour phase 240(1990)223
- Mass spectrometry; Chlorotriazine pesticides; Organophosphorus pesticides; Pesticides; Soils 243(1991)259
- Pattern recognition; Liquor aromas; Headspace concentration; Gas sensor array; Semiconductor 243(1991)293
- Mass spectrometry; Water; Pesticides; 2,2-Dimethoxypropane 244(1991)9
- Extraction; Fats; Lipids; Oils; Pesticides; Organophosphorus pesticides; Solid-phase extraction cartridges 245(1991)259
- Tetrabutylammonium alkylsulfonates; Anion chain length, Partition coefficients 246(1991)171
- Mass spectrometry; Kinetic analysis; Polynuclear aromatic hydrocarbons; Halogenated hydrocarbons; Chemical ionization, Fourier transform ion cyclotron resonance 246(1991)199
- At. abs. spectrometry; Hydride generation; Tributyltin oxide; Urine; Wood preservatives 246(1991)351

Mass spectrometry; Pattern recognition; Expert system; Low-resolution mass spectra; Volatile organic compounds; MAX-MASS 246(1991)391

Mass spectrometry; Foods; Honey; Pentachlorophenol; Sep-Pak extraction 247(1991)121

Mass spectrometry; Dimethyladenosine; Urine 247(1991)201

Mass spectrometry; Formebolone metabolism; Steroids, anabolic 247(1991)211

Mass spectrometry; Carboxylic acids, short chain; Feces; Ion-trap detector 247(1991)223

Mass spectrometry; Blood; Ifosfamide 247(1991)229

Mass spectrometry; Methylmalonic acid; Urine; Ion-trap detector 247(1991)243

Mass spectrometry; Heroin; Isotope ratio; Geographical origin 247(1991)249

Mass spectrometry; Amino acids; Protein synthesis 247(1991)255

Mass spectrometry; Olive oil; Cinnamic acid ethyl ester, 4-Vinylphenol 247(1991)295

Essential oils; Simplex algorithm; Fragrance matching 248(1991)41

At. abs. spectrometry; Mercury; Organomercury compounds; Ethylation, Sodium tetraethylborate 248(1991)563

Aldehydes; Alkenal-*N*-methylhydrazones 248(1991)619

Biological samples; Fish; Mercury; Organomercury halides; Speciation; Butylation, Derivatization, Microwave-induced plasma emission detector 249(1991)545

Helium-3; Sea water; Sulphur hexafluoride; Tracers; Waters; Concentration mapping, Continuous underway analysis, Gas exchange 249(1991)555

Mass spectrometry; Alternating regression; Component reconstruction; Spectral primary space 250(1991)169

### Gel permeation chromatography

Spectrophotometry; Copper/flavonoid complexes; Vegetables 203(1987)23

Flow system; Enzyme reactor; Starch; Glycogen; Amylase; Controlled-pore glass beads, Hydrolysis 234(1989)97

Liquid chrom.; Light scattering; Molecular size; Proteins; Egg white, Hepatitis B surface antigen, Macromolecular interaction 249(1991)227

### Gravimetry

Lead-bearing samples; Silica; Errors 219(1989)177

H.p.l.c.; Titrimetry; Anions; Orthogonal regression; Waters 220(1989)207

Mercury; Cerium(IV), Perchloric acid 242(1991)279

# H

### High-performance liquid chromatography

Fluorimetry; Flavins; Waters; Solid-phase ion-pair extraction 201(1987)127

Kalman filter; Resolution 201(1987)185

Gas chromatography; Isoalkanes; Retention indices; General model 201(1987)217

Potentiometry; Coal; Fluorine; Minerals; Pyrohydrolysis 202(1987)61

Voltammetry; Dacarbazine; Serum 202(1987)141

Voltammetry; Purines 202(1987)167

Kalman filter; Resolution 202(1987)187

Acetate; Ammonium; Antarctic ice; Fluoride; Formate; Methanesulphonate 203(1987)11

Spectrophotometry; Calcium; Magnesium; Water; Post-column reaction 204(1988)87

Amperometry; Anion monitoring; Differential double-layer capacitance; Electroosmotic, Mercury electrodes 204(1988)95

Fermentation of whey; Sugars; On-line, Ultrafiltration 204(1988)127

Amino acid enantiomers; Chiral complex eluent, Reverse-phase 204(1988)145

Amperometry; Tributyltin oxide; Polarographic studies 204(1988)151

Fluorimetry; Amino acids; Tryptophan; Photochemical reactor 205(1988)7

Fluorimetry; Amino acids; Carboxylic acids; Peptides; Laser-induced, Selective derivatization 205(1988)15

Fluorimetry; Disulphides; Rat tissues; Thiols; Pre-column derivatization 205(1988)29

Fluorimetry; Thiol-bimane derivatives; Reversed-phase 205(1988)43

Chemiluminescence; Immunoassay; Quality control; Steroid labels 205(1988)175

Chemiluminescence; Immunoassay; Oxazepam; Urine 205(1988)249

Chemiluminescence; Estradiol; Serum; Normal-phase 205(1988)255

Voltammetry; Foods; Disaccharides; Monosaccharides; Physiological fluids; Electrocatalytic chemically modified electrode 206(1988)85

Ion exchange; Conductometry; Spectrophotometry; Anions; Waters; Tiron eluent 206(1988)281

Emission spectrometry; Geological samples; Plasmas; Rare-earth elements; Inductively-coupled 207(1988)149

Amperometry; Fluorouracil; Pharmaceuticals; Serum; Anodic 207(1988)183

Sulphur anions 207(1988)301

Polarography; Grapes; Sulphur residues; Wheat; Sampled d.c., Differential pulse 207(1988)305

Fluorimetry; Carbon black extract; Polynuclear aromatic hydrocarbons; Shpol'skii effect 208(1988)183

Fluorimetry; Proteins; Serum; Time-resolved laser 208(1988)255

Caffeine; Octadecyl phases; Purine bases; Serum; High-density, Chemically bonded, Silica gels 208(1988)263

Enantiomers containing single aromatic rings;  $\beta$ -Cyclodextrin-bonded phases 208(1988)275

Amperometry; Hydroquinone; Metol; Photographic developer; Reversed-phase, Ion-pair 208(1988)337

Amperometry; Aflatoxins; Peanut butter 208(1988)343

Kalman filter; Robot system; Solid dosage formulations; One-dimensional 209(1988)45

Amperometry; Amino acids; Enzyme electrodes; Detectors 209(1988)259

Flow system; Voltammetry; Blood; Uracil derivatives; Urine; Differential pulse, Cathodic stripping 211(1988)175

Fluorimetry; Methoxypsoralen 211(1988)333

Kalman filter; Peak resolution 212(1988)81

Characterization of stationary/mobile phases; Reversed-phase retention; Using markers 212(1988)95

Flow system; Extraction; Organophosphorus pesticides; Waters 212(1988)123

Fluorimetry; Alkylamines; Post-column derivatization 212(1988)155

Phenols partition equilibria; Anionic micelles 212(1988)171

Serum; Thiopurine compounds; Micelles as mobile phase 212(1988)181

Ethylenethiourea; Filters; Urine; Occupational hygiene 212(1988)297

Flow system; Antibiotics production; Process control; On-line 213(1988)1

Ion exchange; Fermentation media; Organic acids; Short glass columns 213(1988)227

Caffeine; Morphine; Plant materials; Quinine; Serum; Supercritical fluid extraction 213(1988)237

Immunoassay; Voltammetry; Aminophenyl phosphate substrate; Digoxin 214(1988)187

Amperometry; Sulphur-containing pesticides; Pulsed, Reversed-phase 215(1988)1

Amperometry; Aldehydes; Ketones; Photoelectrochemical detector; Mechanism, Alkyl, Aryl 215(1988)45

Emission spectrometry; Microwave-induced nitrogen discharge; Replacement-ion chromatography 215(1988)99

Emission spectrometry; Flow system; Plasmas; Microliter samples, Peak-shaped input, Inductively-coupled 215(1988)143

Fluorimetry; Aromatic aldehydes; 1,2-Diamino-4,5-ethylenedioxybenzene reagent 215(1988)259

Gas chromatography; T.l.c.; Review; Supercritical-fluid 216(1989)109

Chemiluminescence; Fluorimetry; Aminocoumarins 217(1989)11

Conductometry; Air; Nitrate; Nitrite; Passive monitors; Sulphate 217(1989)135

Doxorubicin; Plasma; Reversed-phase ion-pair 217(1989)149

Chemiluminescence; Cobalt; Rice flour 217(1989)157

Ion exchange; Conductometry; Sludges; Soils; Tungstate 217(1989)383

Catecholamines; Urine; On-line purification 218(1989)119

Amperometry; Enzyme reactor; Nicotinamide coenzymes 218(1989)129

Spectrophotometry; Gas chromatography; Tetraalkylammonium sulphonates 218(1989)241

Gas chromatography; Mass spectrometry; Resolution of overlapping peaks; Statistical and empirical functions 219(1989)257

Ion exchange; Gold; Platinum group metals; Chloro complexes, Bonded phase silica 220(1989)195

Titrimetry; Gravimetry; Anions; Orthogonal regression; Waters 220(1989)207

### Hydride generation

At. abs. spectrometry; Biological materials; Selenium 201(1987)331

At. abs. spectrometry; Lead; Nitroso-R salt 221(1989)85

Emission spectrometry; Germanium; Interference 229(1990)239

Gas chromatography; At. abs. spectrometry; Tributyltin oxide; Urine; Wood preservatives 246(1991)351

## I

### Image analysis

Double-reciprocal plot; Drug; Enzyme-multiplied 223(1989)293

Crystallization monitoring; Geometry-based algorithm 238(1990)243

### Immunoassay

Chemiluminescence; H.p.l.c.; Quality control; Steroid labels 205(1988)175

Chemiluminescence; Choline acetyltransferase; Tissue extracts 205(1988)183

Chemiluminescence; Estriol; Saliva 205(1988)215

Chemiluminescence; Meat samples; Nortestosterone; Comparison 205(1988)223

Fluorimetry; Hepatitis B surface antigen 205(1988)239

Chemiluminescence; Anabolic agents; Bovine serum 205(1988)243

Chemiluminescence; H.p.l.c.; Oxazepam; Urine 205(1988)249

Saliva; Testosterone 207(1988)161

Surface plasmon resonance immunosensors; Sensitivity 213(1988)35

Antibodies to peptides; Denatured protein; Short synthetic, Specific recognition 213(1988)187

H.p.l.c.; Voltammetry; Aminophenyl phosphate substrate; Digoxin 214(1988)187

*Candida albicans*; Human olfactory function 217(1989)281

Amperometry; Enzyme;  $\alpha$ -Fetoprotein; Immunocomplex; Biosensor 222(1989)235

Kinetic analysis;  $\alpha$ -Fetoprotein; Immunoglobulin G; Placental lactogen; Fluoride ion-selective electrode 224(1989)329

Amperometry; Insulin; Serum; Enzyme immunoelectrode 225(1989)283

Chemiluminescence; Acridinium label 227(1989)11

Fluorimetry; (Microspot) 227(1989)73

Flow system; Chemiluminescence; Acridinium; Immunoglobulin G 227(1989)97

Spectrophotometry; Chemiluminescence; Nortestosterone; Enzyme 227(1989)109

Chemiluminescence; Progesterone; Whole saliva; Microtitre plate 227(1989)119

Fluorimetry; Estrogen; Laser 227(1989)129

Fluorimetry; Biosensor; Fibre-optic; Phenytoin 227(1989)135

Fluorimetry; Amphetamine; Methamphetamine; Urine; Polarization 227(1989)287

Flow system; Adenosine deaminase; Protein; Sandwich-type 229(1990)47

Fluorimetry; Sensor; Immobilization, Fibre optic 229(1990)169  
Immunoglobulin G; Enzyme amplification; Human, Anti-human, Solid-phase, Enzyme cascade 232(1990)267

Flow system; Monoclonal antibodies; Immunoglobulin G; Hybridoma cell fermentation 234(1990)83

Fluorimetry; Biosensors; Fibre-optic sensor; Benzo[a]pyrene tetraol; Laser excitation 236(1990)237

Chemiluminescence; Flow system; Haptens; Enzyme system; Thyroxine; Horseradish peroxidase, Luminol 237(1990)285

Chemiluminescence; Methyltestosterone; Steroids; Direct reading, Microtitre plates, Luminoskan, Solid-phase 248(1991)207

Osmotic pump; Saliva; Testosterone; In situ collection device 248(1991)517

Flow system; Bioreactors; Enzyme-linked immunosorbent assay; Process monitoring 249(1991)163

Electrophoresis; Antibody expression; Enzyme-linked immunosorbent assay; Flow cytometry; Hybridoma cells; Monoclonal antibodies; Homogeneous continuous perfusion culture systems 249(1991)257

Clinical test devices; Disposable analytical devices; Printed liquidic circuits; Switch devices 249(1991)263

Fermentation; Insulin; Genetic engineered human insulin, Downstream processing 249(1991)271

Potentiometry; Biosensors; Capacitance; Enterotoxin B; Semiconductors; Toxins; Antibody fixation, Grafted immunospecies 249(1991)367

Voltammetry; Cyclic voltammetry; Anti-HSA; HSA; Immunosensors; Polymer-modified electrodes; Polypyrrole 249(1991)381

Amperometry; Biosensors; Enzyme electrodes; Fibre-optic sensors; Immunosensors; Bioaffinity, Biocatalytic 250(1991)249

### Infrared spectrometry

Titrimetry; N.m.r. spectrometry; Mass spectrometry; Quinoline derivatives; Oxidation by vanadium(V) 204(1988)77

Environmental mixtures; Expert system; Interpretation program 210(1988)51

Reduction of information space; Fast Fourier, Fast Hadamard 210(1988)63

Chemical information systems; High-speed data-management 210(1988)73

N.m.r. spectrometry; Knowledge base; Numerical data; Acquisition, Dissemination, Retrieval 210(1988)81

N.m.r. spectrometry; Spectrophotometry; Calcichrome structure 217(1989)31

Computer-assisted interpretation of spectra; Knowledge-based system; Descriptive, Interactive 217(1989)203

Geological samples; Talc 217(1989)353

Chlorobenzenesulphonic acid; Waters 219(1989)165

Automated structure elucidation; Symbolic logic; Computer program 220(1989)155

Flow reactor; Gas cell; Methylchlorosilane; Silicon 222(1989)221

Principal components; Discriminant analysis, Multiple regression 223(1989)75

Grain; Outlier detection 223(1989)95

Mass spectrometry; Artificial intelligence; Spectrum interpreter 223(1989)135

Condensed-phase; Knowledge-based system 227(1989)343

Condensed-phase; Knowledge-based system 227(1989)359

Spectrophotometry; Chlorotriazine; Immobilization; Silica gel; Trihydroxyazobenzene; Diffuse-reflectance 228(1990)235

Spectrophotometry; Fluorimetry; N.m.r. spectrometry; Fulvic acids; Laurentian, Colour origin 232(1990)43

Process analysis; Polymer melts; Fourier transform 238(1990)83

Fuel quality; Fibre optics; Multivariate calibration; Process analysis; Gasoline; Diesel fuel; Octane number, Cetane number 238(1990)95

Review; Automated spectral interpretation; Structure determination; Computer-assisted interpretation of spectra; Knowledge-based system; Library search, Pattern recognition 240(1990)3

Organophosphorus compounds; Ethylphosphine; Normal coordinate calculations 240(1990)19

Langmuir-Blodgett films; Phospholipid; Valinomycin; Fourier transform; ISFET; Potassium; Structural characterization, Micro-ATR 240(1990)29

Raman spectrometry; Mirex; Pesticides; Hydrogen-substituted degradation products 240(1990)41

Oxochloroaluminate melts; Fourier transform, MNDO/3-calculated spectra 240(1990)61

Nitrate; Nitrite; Ammonium; Matrix isolation, Alkali metal halide pellets 240(1990)69

Fourier transform; Polyimide films; Silicon electronic devices; Langmuir-Blodgett films; Attenuated total reflectance 240(1990)81



Fourier transform; Chalcogenide; Fibres; Surface modification 240(1990)125

Carbon monoxide; Nitric oxide; Platinum-silica catalysts; Adsorption 240(1990)139

Polarization; Dichroism; Fourier transform, Linear and circular dichroic spectra 240(1990)145

Raman spectrometry; Pressure tuning vibrational spectroscopy; Hydrostatic pressure, Sodium and potassium decanoate 240(1990)151

Fluoromethane; Submillimetre wave spectroscopy; Pure rotational transitions, Acoustic detection 240(1990)167

Composites; Dielectric constant; Bismuth; Two-phase, Topology 240(1990)173

Specular reflectance; External reflection; Fresnel's equations, Weakly absorbing organic materials, Refractive index 240(1990)179

Polystyrene; Silica; Simulated spectra; Dielectric function 240(1990)187

Trimethylchlorostannane; Solvation 240(1990)199

Gas chromatography; Environmental samples; Pesticides; Polynuclear aromatic hydrocarbons; Fourier transform, Low temperature 240(1990)205

Alumina; Fourier transform; Photo-induced interaction; Rhenium; Hydroxylated alumina surface 240(1990)211

Fourier transform; Rhenium; Alumina; Hydroxylated alumina surface 240(1990)215

Surface electromagnetic wave spectrometry; Radiometry; Thin solid films, Optical properties, Quartz resonators 240(1990)219

Gas chromatography; Absorption coefficients; Vapour phase 240(1990)223

Diffuse reflectance; Inorganic powders; Silica; Silicon carbide; Blocker device, Simulation technique 240(1990)229

Surface electromagnetic waves; Thin films; Fourier transform 240(1990)235

Raman spectrometry; Near infrared; Fourier transform 240(1991)239

External reflection; Fourier transform, Theory 240(1991)251

Disulphane; Internal rotation; Rotational and torsional spectra, Millimetre and submillimetre, Isotopes 240(1991)263

Superconductors; Vibrational structure; Reflectance, Ceramic 240(1991)273

Nucleosides; Cytidine; Deoxycytidine; Fourier transform, Phosphate salts, Aqueous solutions 240(1991)277

Raman spectrometry; Benzodiazepines; Nitrazepam; Nimetazepam; Clonazepam; Flunitrazepam; Fourier transform 240(1991)287

Polarization; Grazing incidence; Reflection-absorption; Organic thin films, Enhancement 240(1991)305

Rhamnose derivatives; Hydrogen bonding 240(1991)311

Raman spectrometry; Methylbut-1-yne; Dimethylbut-1-yne 240(1991)317

Kinetic analysis; Amine complexes; Aniline complexes; Formation constants; Fourier transform, Organic acceptors, Tetracyanoethylene, Fluoranyl 240(1991)347

Attenuated total reflection; Depth profiling; Poly(ethylene terephthalate) 240(1991)353

Diffuse reflectance; Glass-covered samples; Hydrogen spillover; Zeolite; Fourier transform, Water formation 240(1991)363

Attenuated total reflection; Liquid crystals; Nematic, 5CB, Modulation, Electric field response 240(1991)371

Cesium hydroxide; High temperature spectrum 240(1991)383

Raman spectrometry; 4,4-Dimethyl-2-pentyne 240(1991)389

Raman spectrometry; Dimethylethyleneurea; Dimethylimidazolidinone; Deuterated 240(1991)395

Paint solvents; Xylol; Fourier transform, Butan-1-ol, Butyl acetate, Azeotropic mixtures 242(1991)123

Spectrophotometry; Mass spectrometry; Iron(II) complexes; Ethanedial; Glyoxal; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Discriminant analysis techniques; Atmospheric pollutants; Interferograms 246(1991)85

Kinetic analysis; Bis(2,4-dinitrophenyl) oxalate; Hydrolysis; Decomposition products 247(1991)141

Resolution enhancement; Sample perturbation; Information content 250(1991)131

Flow system; Fluorimetry; Spectrophotometry; Raman spectrometry; Mass spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157

## Ion exchange

Emission spectrometry; Geological samples; Gold; Palladium; Plasmas; Platinum 201(1987)95

Flow system; Spectrophotometry; Arsenate; Phosphate; Silicate 204(1988)53

Conductometry; Spectrophotometry; H.p.l.c.; Anions; Waters; Tiron eluent 206(1988)281

Voltammetry; Mercury; Silver; Zeolite-containing carbon-paste electrodes; Preconcentration 207(1988)95

Anod. stripping voltammetry; Speciation; Toxicity; Waters; Physicochemical, Metal to *Chlorella pyrenoidosa* 209(1988)97

Cation affinity series; Phosphonic acid resin 209(1988)363

Activ. analysis; Serum; Trace metals 211(1988)231

Spectrophotometry; Boron; Geological materials 211(1988)243

Electrotherm. atomization; At. abs. spectrometry; Heavy metals; Seawater; Pre-concentration, Chelex-100, pH and salts 211(1988)257

Electrotherm. atomization; At. abs. spectrometry; Heavy metals; Seawater; Pre-concentration, Chelex-100, Optimization, Plate simulation method 211(1988)271

At. abs. spectrometry; Cobalt; Copper; Manganese; Nickel; Tellurium metal 212(1988)191

H.p.l.c.; Fermentation media; Organic acids; Short glass columns 213(1988)227

- Flow system; At. abs. spectrometry; Emission spectrometry; Extraction; Gas diffusion; On-line separation; Preconcentration 214(1988)41
- Flow system; Spectrophotometry; Ammonium ions; Gas-diffusion separation 214(1988)121
- Flow system; Amperometry; Acetylcholine; Choline; Enzyme reactor; Lipids 214(1988)173
- Spectrophotometry; Flow system; Copper; Integrated reaction, Unsegmented 214(1988)217
- Kinetic analysis; Flow system; Spectrophotometry; Molybdenum; Plants 214(1988)239
- Spectrophotometry; Flow system; Geological samples; Preconcentration; Uranium 214(1988)279
- At. abs. spectrometry; Spectrophotometry; Manganese metal; Trace elements 215(1988)111
- At. abs. spectrometry; Spectrophotometry; Manganese metal; Trace elements 215(1988)317
- H.p.l.c.; Conductometry; Sludges; Soils; Tungstate 217(1989)383
- Polarography; Molybdenum; Seawater; Tungsten; Waters; Catalytic current, Preconcentration 218(1989)25
- At. abs. spectrometry; Copper speciation; Waters 219(1989)1
- Flow system; Potentiometry; Halides 219(1989)55
- Activ. analysis; Rare earth elements; Uranium 219(1989)313
- Mercury; Waters; Preconcentration 219(1989)339
- H.p.l.c.; Gold; Platinum group metals; Chloro complexes, Bonded phase silica 220(1989)195
- X-ray fluoro. spectrometry; Coal ash; Leach liquors 220(1989)217
- Brines; Rare earth elements; Preconcentration 220(1989)243
- Amperometry; Voltammetry; Nafion; Sensor; Low-conductivity solvent 221(1989)27
- Chemiluminescence; Liquid chrom.; Cobalt; Ion chromatography 221(1989)249
- Amidoxime; Chelating resin; Holmium; Neodymium 221(1989)325
- Potentiometry; Liquid chrom.; Alkali metal ion; Potassium ion; Valinomycin; Replacement ion chromatography 222(1989)95
- Liquid chrom.; Potentiometry; Ion chromatography, Silver/silver bromide electrode 222(1989)109
- Citric acid; Dissociation constant; Ternary system 222(1989)189
- Metal ion; Rate constant; Chelex 222(1989)279
- Isotope dilut. analysis; Meteorite; Osmium; Rhenium; Resonance ionization mass spectrometry 222(1989)291
- Flow system; Molybdenum; Natural water; Rock 225(1989)313
- Carboxylic resin; Cation affinity; Phosphinic resin; Sulphonic resin 225(1989)323
- Flow system; Spectrophotometry; Nitrate 225(1989)331
- Potentiometry; Ferrocene; Glucose; Glucose oxidase; Siloxane polymer 228(1990)23
- Chromatography; Selectivity coefficient; Streaming potential 228(1990)61
- Environmental sample; Extraction; Technetium 228(1990)163
- Dowex; Polyurethane foam; Retention behaviour; Hydrochloric acid-potassium thiocyanate 229(1990)127
- Chromatography; Glyphosate; Nitrosoglyphosate 230(1990)29
- Chemiluminescence; Chlorine; Waters; Uranine; Tap, Amberlite anion-exchange resin, Chloramines, Immobilized, Xanthene dye 231(1990)7
- Anod. stripping voltammetry; Diff. pulse voltammetry; Lead; Copper 231(1990)133
- Chromatography; Cyclic voltammetry; Nitrosamines; Methylhydroxadiazolium ion; Electrochemical detection, 1-Octanesulphonic acid ion-pairing reagent 232(1990)397
- Metal complexes; Ammonium nitrate; Distribution coefficients; Ammines, Aquo complexes, Cation-exchange 233(1990)129
- Poly(dithiocarbamate) resin; Preconcentration; Ion-exchange-chelating resin, Phase ratio 235(1990)427
- Zirconium vanadophosphate; Geological samples 235(1990)435
- Chromatography; Chemiluminescence; Trace metals; Multi-element detection; Waters; Co-EDTA post-column reagent, Luminol-peroxide, Zinc, Aluminium 237(1990)291
- Chromatography; Oxalate; Plasma; Enzymatic method; Chloride removal 237(1990)299
- Chromatography; Inorganic anions; Waters; Conductivity; Cu(II)-containing poly(3-methylthiophene) electrode, Single column 237(1990)317
- Titrimetry; Chromatography; Process analysis; Gas treatment; Sulphur; Thiols; Automated titrator 238(1990)161
- At. abs. spectrometry; Chromium; Waters; Preconcentration 238(1990)273
- Chromatography; Spectrophotometry; Aluminium; Preconcentration; Pyrocatechol violet, Aqueous samples 238(1990)279
- Chromatography; Flow system; Potentiometry; Ion-selective electrodes; Calcium 242(1991)65
- Beryllium; Aluminium; Polystyrene-divinylbenzene resin, *N*-Benzoylphenylhydroxylamine functional group 242(1991)107
- Amino acids; Peptides; Hollow fibres; Nafion membrane; Permeation 244(1991)21
- Sodium; Amberlite IRC-84, Resin carboxylic protons, Cation exchange 244(1991)275
- Copper; Complexation; Humic acids; Peat, Functional groups, Sulphopropyl-Sephadex C-25 cation exchanger 244(1991)281
- Enzyme electrode; Enzyme inhibition; Oxalate oxidase; Urine, Oxalate, Thiocyanate 245(1991)129
- Flow system; Biosensors; Glucose sensors; Poly(ester-sulfonic acid) coatings 245(1991)139
- Flow system; Chromatography; Cyclic voltammetry; Alkaline earth metal ions; Alkali metal ions; Polyaniline-Nafion electrode 246(1991)275
- Chromatography; Copper; Palladium; Base metals 248(1991)535

Mass spectrometry; Liquid chrom.; Electrophoresis; Chromatography; Histone H2A (1-53)-NH<sub>2</sub>; Peptides; Synthesis, Purification, Characterization 249(1991)215

Chromatography; Arsenate; Germanate; Phosphate; Silicate; Molybdenum blue reaction, Post-column detection 249(1991)539

Chromatography; Cyanides; Ion-interaction chromatography; Metallo-cyanides; Preconcentration 250(1991)21

### Isotope dilution analysis

Extraction; Plants; Sulphur 219(1989)97

Ion exchange; Meteorite; Osmium; Rhenium; Resonance ionization mass spectrometry 222(1989)291

Arsenic; Marine organism; Methylated arsenic 228(1990)85

Mass spectrometry; Geological sample; Uranium 228(1990)333

Mass spectrometry; Emission spectrometry; Geological material; Rubidium 229(1990)157

Mass spectrometry; Waters; Sea water; Barium; Plasma; Inductively coupled 232(1990)323

Manganese; Biological samples; Foods; Spices; Thenoyltrifluoroacetone complex 234(1990)445

Mass spectrometry; Lead; Pineapple; Foods; Isotope systematics; Soldered cans, Welded cans, Clean laboratory 235(1990)367

Contamination; Nitrogen; Soil; Extraction, Distillation, Drying 245(1991)49

Mass spectrometry; Plasmas; Sea water; Uranium; Waters; Marine sediment pore waters 245(1991)83

## K

### Kinetic analysis

Titrimetry; Catalytic end-point detection; Review 202(1987)1

Flow system; Spectrophotometry; Paracetamol; Single bead-string reactor; Optimization 204(1988)29

Chemiluminescence; Chromium speciation; Carboxylate ligands, Humic acid 206(1988)263

Spectrophotometry; Bromide; Waters 206(1988)273

Potentiometry; Organic iodine-containing compounds 206(1988)375

Spectrophotometry; Nuclear fuels; Technetium; Vegetation 207(1988)233

Flow system; Cobalt; Waters; In-line preconcentration 207(1988)331

Spectrophotometry; Competitive binding; Riboflavin; Urine; Homogeneous enzyme-linked 208(1988)31

Spectrophotometry; Biotin; Competitive binding; Vitamin tablets; Homogeneous enzyme-linked 208(1988)43

Polarography; Biological samples; Paraquat; Photoreduction; Soils; Waters 209(1988)79

Flow system; Sulphur anions; Catalyzed iodine-azide reaction 211(1988)299

Spectrophotometry; Cobalt; Nickel; Resolution of binary mixtures; Interpolation 212(1988)223

Spectrophotometry; Thiobenzamides; Catalysis, Partition coefficients 212(1988)279

Formic acid; Oxalic acid; Gasometric 212(1988)303

Spectrophotometry; Ethanol; Fermentation media; Glucose; Enzymatic 213(1988)61

Conductometry; Blood; Enzyme activities 213(1988)267

Flow system; Spectrophotometry; Ion exchange; Molybdenum; Plants 214(1988)239

Review 216(1989)69

Flow system; Spectrophotometry; High-purity chemicals; Manganese; Catalytic effect 217(1989)23

Voltammetry; Metalloporphyrin modified glassy carbon electrodes; Urine 217(1989)343

Flow system; Spectrophotometry; Self-modeling curve resolution 218(1989)303

Spectrophotometry; Acetaminophen; Pharmaceuticals 218(1989)313

Potentiometry; Pharmaceuticals; Phytic acid; Urine; Crystalline growth of calcium oxalate 219(1989)89

Flow system; Lactate dehydrogenase; Serum; Multi-detection, Cyclic system 219(1989)191

Potentiometry; Cephalixin; Cetyltrimethylammonium bromide; Pharmaceuticals; Sulphamethizole; Micellar catalysis 219(1989)295

Flow system; Liquid chrom.; Computer controlled apparatus; Enzyme reactions; Protein; Stopped-flow 220(1989)13

Flow system; Gradient chamber; Model for unsegmented 220(1989)23

Potentiometry; Lactose; Sucrose; Periodate-selective electrode 224(1989)159

Flow system; Ferroin; Ion-pair extraction 224(1989)169

Micelle; Cerium-arsenic reaction 224(1989)185

Dichlorophenolindophenol; Dithionites 224(1989)199

Spectrophotometry; Ascorbic acid; Hexacyanoferrate 224(1989)211

Fluorimetry; Standard addition 224(1989)225

Kalman Filter; Marquardt algorithm 224(1989)243

Amino acid; Kalman filter; Trinitrobenzenesulphonic acid 224(1989)263

pH; Temperature 224(1989)275

Algorithm 224(1989)289

T.L.c.; Amino acid; Ninhydrin 224(1989)315

Immunoassay;  $\alpha$ -Fetoprotein; Immunoglobulin G; Placental lactogen; Fluoride ion-selective electrode 224(1989)329

Spectrophotometry; Acetaminophen; Iron complex; Serum, Pharmaceutical preparation 224(1989)339

Spectrophotometry; Haemoglobin; Methaemoglobin; Whole blood 224(1989)351

Fluorimetry; Alizarin garnet R; Aluminum 224(1989)363

Flow system; Antimony; Molybdenum blue 224(1989)373

Flow system; Chlorine; Oxychlorine 224(1989)383

Flow system; Spectrophotometry; Hydrazine; Phenylhydrazine; Diode-array 225(1989)115

Spectrophotometry; Micelle; Iron; Pyrocatechol violet complex 226(1989)137

Potentiometry; Ascorbic acid; Biotin; *N*-bromosuccinimide; Pyridoxine hydrochloride; Thiamine hydrochloride 227(1989)405

Spectrophotometry; Copper; Hydroxybenzaldehyde azine 229(1990)107

Flow system; Spectrophotometry; Iron; Leucomalachite green; Peroxodisulphate 230(1990)113

Spectrophotometry; Biacetyl; Serum; Urea 230(1990)145

Flow system; Spectrophotometry; Reserpine; Catalysts; Manganese; Continuous-flow analysis, Manganese oxide reactor 233(1990)235

Fluorimetry; Hydrogen peroxide; Glucose; Homovanillic acid; Peroxidase-like catalysed oxidation; Manganese tetrakis-(sulphophenyl)porphyrin-catalysed oxidation 233(1990)299

Flow system; Amperometry; Oxalate; Photosensitive compounds; Iron (III) 234(1990)227

Spectrophotometry; Nitrite; Water; Food; Sausage, Potassium bromate, Thionine 234(1990)403

Quantitative structure/time/activity relations; Intracellular distribution, Bioactivity profiles 235(1990)195

Flow system; Spectrophotometry; Manganese; Waters; Stopped-flow method, Gradient calibration 235(1990)323

Cyclic voltammetry; Hexacyanoferrates; Oscillating reaction; Mechanism, Silver plating solution, Photographic solution 236(1990)411

Spectrophotometry; Vanadium; Micellar catalysis, Chemical catalysis, *p*-Phenetidine, Catechol, Bromate oxidative coupling, Cetylpyridinium chloride surfactant 237(1990)207

Acetylacetone; Ethers; Mass transfer; Extraction; Interfacial 237(1990)237

Spectrophotometry; Sulphonamides; Pharmaceuticals; Azo dye, Continuous addition of reagent 237(1990)353

Amperometry; Ion-selective electrodes; Oxygen; Membrane electrode, Transient response 237(1990)413

I.r. spectrometry; Amine complexes; Aniline complexes; Formation constants; Fourier transform, Organic acceptors, Tetracyanoethylene, Fluoranyl 240(1991)347

Flow system; Spectrophotometry; Fluorimetry; Review; Stopped-flow technique 242(1991)147

Flow system; Oxalate; Urine; Enzyme reactor; Double stopped flow 242(1991)179

Fluorimetry; Ascorbic acid; Vitamin pills; Fruit juice; *o*-Phenylenediamine 243(1991)89

Spectrophotometry; Norbornadiene derivatives; Tetraphenylporphinecobalt(II); Photochromism; Porous glass beads, Immobilized 243(1991)97

Cyclic voltammetry; Orthogonal collocation; Heterogeneous equivalent formulation; Simulation; Fast second-order reactions 243(1991)301

Spectrophotometry; Multi-component analysis; Formaldehyde; Acrolein; Wavelength-pair method, Diode-array detection 244(1991)81

Spectrophotometry; Vanadium; 1,4-Dihydroxyphthalimide dioxime oxidation, Bromate, Vanadium catalysis 244(1991)89

Fluorimetry; DNA hybridization kinetics; Fluorescence polarization; Labelled oligonucleotides, Mismatches 244(1991)207

Spectrophotometry; Osmium; Pyrogallol red oxidation, Bromate, Osmium catalysis 244(1991)231

Spectrophotometry; Amines; Stopped-flow, Dialkylthiocarbamates 244(1991)239

Extraction; Palladium; Equilibrium, Mechanism 245(1991)225

Mass spectrometry; Gas chromatography; Polynuclear aromatic hydrocarbons; Halogenated hydrocarbons; Chemical ionization, Fourier transform ion cyclotron resonance 246(1990)199

I.r. spectrometry; Bis(2,4-dinitrophenyl) oxalate; Hydrolysis; Decomposition products 247(1991)141

Amperometry; Biosensors; Electron transfer; Quinoproteins; Methylamine dehydrogenase; Amicyanin, Cytochrome *c* 249(1991)235

Film balance; Langmuir-Blodgett films; Process analysis; Proteins; Air/water interface, Multi-compartment trough,  $\beta$ -Lactoglobulin 249(1991)241

## L

### Liquid chromatography

Emission spectrometry; Geological samples; Plasmas; Rare earth elements; Inductively-coupled, Oxalate coprecipitation, Cation-exchange 208(1988)163

Flow system; Kinetic analysis; Computer controlled apparatus; Enzyme reactions; Protein; Stopped-flow 220(1989)13

Extraction; Plutonium; Soils;  $\alpha$ -Spectrometry 220(1989)103

Fluorimetry; Methylglyoxal; Mouse blood 221(1989)163

Polarimetry; Erythromycin; Laser 221(1989)239

Chemiluminescence; Ion exchange; Cobalt; Ion chromatography 221(1989)249

Ion exchange; Potentiometry; Alkali metal ion; Potassium ion; Valinomycin; Replacement ion chromatography 222(1989)95

Ion exchange; Potentiometry; Ion chromatography, Silver/silver bromide electrode 222(1989)109

Fluorimetry; Boronic acid derivative; Brassinosteroid 222(1989)201

- Function of mutual information; Optimization; Capacity factor, Mobile-phase 222(1989)301
- Antipyretic; Function of mutual information; Kalman filter; Mobile phase 222(1989)313
- Basic drug; Expert system; Ion-pair 223(1989)1
- Peak homogeneity; Photodiode-array detector 223(1989)175
- Expert system; Spreadsheet 223(1989)183
- Chemiluminescence; Amine; Aminocoumarin; Luminarine; Peroxyoxalate 223(1989)309
- Fluorimetry; Amine; Dihydrodimethoxymethyloxoquinolinecarbonyl chloride 223(1989)319
- Pyridylazophenols; Transition metal chelate; Ion-pair 223(1989)339
- Mass spectrometry; Interferon; Recombinant protein; Fast atom bombardment 223(1989)361
- Iron; Phenanthroline; Sulphosalicylate 224(1989)65
- Kalman filter; Resolution 225(1989)53
- Spectrophotometry; Ergosterol; Yeast cells 225(1989)129
- Spectrophotometry; T.l.c.; Carazolol; Pig kidney; Tranquilizer 225(1989)137
- Flow system; Enzyme reactor; Modified electrode; Xylulose; Recirculating flow 225(1989)263
- Chemically modified silica; Dialkylthiocarbamate; Enrichment 225(1989)303
- Flow system; Fluorimetry; Aluminium; Micelle 225(1989)339
- N.m.r. spectrometry; Methylstyrenes 225(1989)409
- Oxo-steroids; Tetrahydrofuran; Dansylhydrazones 225(1989)421
- Fluorimetry; Acetylcarboxycysteine; Urine 226(1989)109
- Chemiluminescence; Oxo-bile acid; Oxo-steroid; Peroxyoxalate 227(1989)21
- Fluorimetry; Argon-ion laser; Polynuclear aromatic hydrocarbon 227(1989)173
- Fluorimetry; Adenine derivative; Chloroacetaldehyde; Chlorofluorobenzyladenine; Plasma 227(1989)189
- Fluorimetry; Brassinosteroid; Dansylaminophenylboronate 228(1990)101
- At. abs. spectrometry; Graphite furnace 228(1990)129
- Expert system; Pharmaceutical sample; Ruggedness test 228(1990)145
- Calcium channel; Chloroquine; Plasma 228(1990)155
- Injection system; Polynuclear aromatic hydrocarbons; Sample introduction, Correlation chromatography 228(1990)193
- Fluorimetry; Cyanoisindole; Steroidal primary alcohols 228(1990)307
- Fluorimetry; Amino acid; Fibre optic; Laser-induced 229(1990)3
- Diacetylpyridine bis(*N*-methylenepyridiniohydrazone); Metal chelate; Rare earth complex 229(1990)101
- Amperometry; Microbe; Tissue 229(1990)139
- Spectrophotometry; Dermatological preparation; Tolnaftate; Undecenoic acid 229(1990)255
- Carboxylic acid; Micelle; Partition coefficient; Ion-exclusion 230(1990)9
- Acenaphthenequinone dioxime; Dimethyl glyoxime; Naphthalene; Palladium; Preconcentration 230(1990)17
- Bromopyridylazodiethylaminophenol; Chelation; Mineral sample; Transition metal; Water 230(1990)23
- Amperometry; Vitamin B<sub>6</sub>; Carbon fibre electrode 230(1990)207
- Chemiluminescence; Diaminophthalhydrazide; Keto acids; Hydrogen peroxide 231(1990)1
- Electrophoresis; Micellar chromatography; Binding constants; Capillary zone, Surfactants 231(1990)237
- Trinitrotoluene; Aminonitrotoluenes 231(1990)313
- Waters; Sea water; Copper; Phytoplankton bloom; Plankton ecosystem; Metal-organic interactions 232(1990)161
- Fulvic acids; Atrazine; Ultrafiltration; Laurentian, Binding, Hydrolysis 232(1990)181
- Polynuclear aromatic hydrocarbons; Cyclodextrin complexes; Formation constants; Solubility; Non-inclusional association, Temperature dependence 232(1990)239
- Copper; Catechin; Flavonoids; Electrochemical detection 232(1990)377
- Vanadium; Air; Waters; Reversed-phase, 2-(8-Quinolylazo)-5-*N,N*-diethylaminophenol 233(1990)121
- Flow system; Liquid scintillation counting; Extraction; Amino acids; Reversed-phase, Phenylthiohydantoin derivatives 233(1990)181
- Methylenedioxy-*N-n*-propylmorphine; Aporphines; Alkaloids; *Cunninghamella elegans* O-dealkylation 233(1990)191
- Fluorimetry; Glyphosate; Aminomethylphosphonic acid; Pesticides; Waters; Post-column fluorogenic labelling 233(1990)311
- Flow system; At. abs. spectrometry; Review; Detectors 234(1989)3
- Amperometry; Enzyme reactor; Carbohydrates; Immobilized, Post-column derivatization 234(1991)13
- Voltammetry; Flow system; Wall-jet detector; Rapid scan, Convection/diffusion-controlled, Diffusion-controlled 234(1989)75
- Flow system; Phloroglucinols; Derivative spectroscopy; Photodiode-array detection, Post-column continuous-flow analysis, Computer-aided, Kosins 234(1989)89
- Flow system; Spectrophotometry; Mass spectrometry; Extraction; Organic pollutants; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119
- Amino acids; Glutamic acid; Chiral separation; Enantiomer separation; Chiral stationary phase, Cyclodextrin, Phthalaldehyde derivatization 234(1990)127
- Spectrophotometry; Amperometry; Coulometry; Thienodiazepines; Pharmaceuticals 234(1990)175



- Fluorimetry; Phthalaldehyde; Fluorescamine; Triton; Cyclodextrin; Pharmaceuticals 234(1990)187
- Fish; Waters; Organic pollutants; Cytotoxicity; In vitro 234(1990)193
- Time-domain differentiation; Computerized peak resolution; Propyl gallate; Butylhydroquinone; Antioxidants; Foods 234(1990)263
- Fluorimetry; Polycyclic aromatic hydrocarbons; Waters; Air; Reversed-phase 234(1990)269
- Expert system; Method validation; Precision testing 235(1990)27
- Multivariate calibration; Data analysis, Reversed-phase 235(1990)41
- Carbon-fibre electrode; Orcinol, Dihydroxynaphthalene 235(1990)273
- Amperometry; Spectrophotometry; Copper; Iron; Waters; Biological materials; Extraction; Cupferron derivatization 235(1990)279
- At. abs. spectrometry; Mercury; Speciation; Waters; Preconcentration; Waste waters, Cold vapour, Microcolumn 235(1990)399
- Climbazol; Shampoo; Cosmetics; Preservative 235(1990)465
- Droplet countercurrent chromatography; Centrifugal partition chromatography; Natural products 236(1990)63
- Gas chromatography; Organic acids; Biological fluids; Serum; Urine; Extraction 236(1990)121
- Solid-phase extraction; Toxicity; Waters; Industrial wastewater effluents, Toxicity reduction, Fractionation 236(1990)131
- Solid-phase extraction; Sample preparation; Ecdysteroids; Insects; Hormones, Sep-Pak cartridge, Phenylboronic acid 236(1990)145
- Gas chromatography; Extraction; Waters; Solid-phase extraction; Membrane, Filtration, Pesticides, Polychlorinated biphenyls, Phthalates 236(1990)157
- Azidothymidine; Plasma; AZT, AIDS, Dialysis, Preconcentration, Silver(I)-thiol 236(1990)165
- Gas chromatography; Mass spectrometry; Pesticides; Pyrimidinol; Corn 236(1990)173
- Surfactants; Nonylphenol polyglycol ether; Non-ionic 236(1990)273
- Acetaminophen; Urine; Electrochemical detection, Dual electrodes, Pharmacokinetics 236(1990)293
- Thiols; Waters; Dithiobis(nitropyridine) derivatization, Phthalaldehyde derivatization, Tributylphosphine, Sep-Pak cartridge extraction 236(1990)363
- Amperometry; Chloramines; Waters; Glassy carbon electrode 237(1989)149
- Thiopurine; Electrochemical activation; Enzymatic activation; Oxidation; Micellar, Horseradish peroxidase 237(1990)305
- Rare earth elements; Thorium; Chromium; Ores; Ion pairing, Complexes, Precolumn derivatization 237(1990)311
- Steels; Transition elements; Rare earth elements; Low-alloy, Post-column reaction detection, 4-(2-pyridylazo)resorcinol, Arsenazo-III 237(1990)325
- Gas chromatography; Process analysis; Deferred standard 238(1990)17
- Flavins; Vitamins; Two-electrode amperometric detection 239(1990)29
- Amino acids; Peptides; Micellar liquid chromatography, Micellar electrokinetic capillary chromatography, Acid-base ionization constants 239(1990)121
- Flow system; Extraction; Caffeine; Zidovudine; Beverages; Food; Urine 239(1990)171
- Chemiluminescence; Fluoropyrimidines; Coumarin derivatization reagents 239(1990)181
- Nitrite; Nitrate; Waters; Sea water; Venice lagoon, Ion interaction reversed-phase 239(1990)203
- Amino acids; Chiral derivatization; Carbodiimides; Ivory identification; 2-*N*-benzyloxycarbonylamino acids, *N,N'*-Bis[(*S*)-1-phenylethyl]carbodiimide 239(1990)297
- Mass spectrometry; Recombinant human epidermal growth factor; Reversed-phase, Fast atom bombardment 239(1990)301
- Carboxylic acids; Wine; Optimization; Derivatization 242(1990)25
- Prednisolone; Prednisone; Plasma; Fluorescence detection, Quinoxaline derivatives 242(1991)113
- Fluorimetry; Solubilization; Benzo[*a*]pyrene; Polynuclear aromatic hydrocarbons; Coal washing water 243(1991)115
- Amine enantiomers; Dansylproline chiral derivatization; Reversed-phase, Diethyl phosphorocyanidate 243(1991)251
- Mass spectrometry; Mycotoxins; Paspalitrems; Paxilline, Paspaline, Paspalinine, Paspalidine, Diode-array detection, Computer library matching 244(1991)1
- Atrazine; Humic acid; Fulvic acid; Herbicides; Laurentian, Ultrafiltration 244(1991)135
- Amperometry; Cyclic voltammetry; Flow system; Carbohydrates; Amino acids; Constant-potential amperometric detection, Metallic electrodes 244(1991)169
- Phosphorimetry; Caffeine; Theophylline; Theobromine; Solid-surface room-temperature 244(1991)215
- At. abs. spectrometry; Computer simulation; Optical activity; Jones and Mueller calculus, Scientific block diagram program 246(1991)9
- Biotin; Biocytin; Vitamins; Competitive binding; Fluorimetric detection 246(1991)103
- Alumina columns; Solvent strength; Selectivity; Retention mechanism; Polybutadiene-coated 246(1991)113
- Electrophoresis; Solute-micelle binding constants; Micellar, Electrokinetic 246(1991)131
- Acetylsalicylic acid; Aspirin; Pharmacokinetics; Microdialysis sampling; Rats, In vivo 246(1991)181
- Chemiluminescence; Chromatography; Alkanolamines; Ethanolamines; Ion-pair, Luminol 246(1991)447
- Flow system; Cyclic voltammetry; Amperometry; Carbohydrates; Sugars; Nickel-catalysed glassy carbon electrode 248(1991)117

Extraction; Polycyclic aromatic hydrocarbons; Supercritical fluid extraction; Supercritical fluid chromatography, Microextractor cell geometry 248(1991)263

Voltammetry; Extraction; Food dyes; Dynamic column solid-phase extraction 248(1991)289

Piezoelectric sensors; Quartz crystal; Electrode-separated 248(1991)329

Fluorimetry; Enzyme reactor; Sorbitol dehydrogenase 248(1991)367

Iodide; Electrochemical detection, Inorganic iodine 248(1991)595

Flow system; Fermentation; Process monitoring 249(1991)87

Electrophoresis; Haemoglobin; Isoelectric focusing; Peptides; Proteins; Anion-exchange, Red blood cells 249(1991)169

Antibodies; Human growth hormone; Serum; Protein G affinity, Reversed phase, Antigen-antibody complexes 249(1991)185

Enzyme purification; Phosphocellulose; Recombinant DNA 249(1991)195

Glycoprotein variants; Hydrophobic interaction chromatography; Plasminogen activator; Proteins 249(1991)201

Polyamino acids; Viscometry; Continuous differential, Polybenzyl glutamate, Poly-L-tryptophan 249(1991)209

Mass spectrometry; Electrophoresis; Ion exchange; Chromatography; Histone H2A (1-53)-NH<sub>2</sub>; Peptides; Synthesis, Purification, Characterization 249(1991)215

Gel perm. chromatogr.; Light scattering; Molecular size; Proteins; Egg white, Hepatitis B surface antigen, Macromolecular interaction 249(1991)227

Fluorimetry; Alkaloids; Benzophenanthridine; Papaveraceae 249(1991)231

Fluorimetry; Flow system; Bile acids; Enzyme reactor; Serum; 3 $\alpha$ -Hydroxysteroid dehydrogenase oxidation catalyst, NAD<sup>+</sup> coenzyme 249(1991)461

pH; Selectivity optimization; Octadecyl-modified silica, Reversed-phase 250(1991)1

Calibration; Factor analysis; Kalman filter; Multi-wavelength detection; Rank annihilation 250(1991)37

Electrophoresis; Capillary) 250(1991)45

## M

### Mass spectrometry

Autoclave testing of glass bottles; Pharmaceutical use, Leached ions, Secondary-ion 201(1987)145

Symmetric distance measures 201(1987)225

Gases; Theoretical aspects, Calibration 201(1987)241

Titrimetry; I.r. spectrometry; N.m.r. spectrometry; Quinoline derivatives; Oxidation by vanadium(V) 204(1988)77

Gas chromatography; Petroleum hydrocarbons; Solid-phase extraction cartridges 204(1988)135

Gas chromatography; Trichothecenes; Heptafluorobutyrate esters, Negative-ion chemical ionization, Tandem 204(1988)233

Halomethylation; Tandem, Ion trap 206(1988)239

Polymers; Potassium-ion ionization, Desorbed species 208(1988)99

Gas chromatography; Extraction; Pendimethaline; Waters 208(1988)331

Microcomputer based information system; Categorized data bases 210(1988)169

Pattern recognition; Inductive expert system; Toxic compounds; SIMCA class modeling 211(1988)11

Fuels; Polar compounds; Methanol chemical-ionization 211(1988)83

Plasmas; Signal suppression; Trace metals; Inductively-coupled, Internal standard 211(1988)91

Flow system; Arsenic; Chloroform; Sample introduction 214(1988)385

Pattern recognition; Artificial-intelligence program; Spectral feature/substructure relationships; Automated elucidation, Tandem 215(1988)169

Isomer distinction; Pentadienes; Quadrupole ion trap 215(1988)223

Plasmas; Review; Plasma source 216(1989)1

Electron probe analysis; Ion-microprobe; Review; Three-dimensional analysis; Secondary-ion 216(1989)25

Multicomponent dye samples; Californium-252, Particle-desorption 218(1989)85

Gas chromatography; T.l.c.; Pattern recognition; Spatial resolution; Secondary ion, Phase-transition matrix 218(1989)217

T.l.c.; Peptides; Steroids; Surface derivatization; Secondary ion 218(1989)231

Rare earth elements; Waters; Isotope-dilution 218(1989)265

Gas chromatography; H.p.l.c.; Resolution of overlapping peaks; Statistical and empirical functions 219(1989)257

Gas chromatography; Air; Diesel particulate; Polynuclear aromatic hydrocarbon; Nitrated polynuclear aromatic hydrocarbon 221(1989)53

Emission spectrometry; Mercury; Natural waters; Sediment; Inductively coupled plasma/mass spectrometry, Sodium borohydride 221(1989)77

Pattern recognition; Fluorimetry; Gas chromatography; Oil-spill identification 222(1989)135

Principal components; Expert system; Toxic compounds 223(1989)105

I.r. spectrometry; Artificial intelligence; Spectrum interpreter 223(1989)135

Peptide; Surface excess concentration; Fast atom bombardment 223(1989)349

- Liquid chrom.; Interferon; Recombinant protein; Fast atom bombardment 223(1989)361
- Principal components; Spruce needle; Thermal degradation; Air pollution 223(1989)371
- Gas chromatography; Isotope ratio; Metal chelates 224(1989)83
- Toluene metabolite; Urine; Silicone membrane source 224(1989)119
- Fourier transform; Molecular weight; Tandem quadrupole 225(1989)1
- Dual-cell geometry; Fourier transform; Ion cyclotron resonance 225(1989)11
- Atmospheric-sampling; Glow-discharge ionization source; Ion-trap 225(1989)25
- Immobilization; Phospholipid; X-ray photoelectron spectroscopy; Time-of-flight, Secondary-ion 225(1989)369
- Combustion; Elemental analysis; Nitrogen 226(1989)345
- Review, Ion-trap 228(1990)1
- Gas chromatography; Atrazine; Herbicides; Water; Ion-trap 228(1990)69
- Fourier transform; Surfactant; Textiles; Laser desorption 228(1990)169
- Data base 228(1990)177
- Isotope dilut. analysis; Geological sample; Uranium 228(1990)333
- Reaction liquid; Sampling system 229(1990)9
- Isotope dilut. analysis; Emission spectrometry; Geological material; Rubidium 229(1990)157
- Mass calibrant; Perfluorokerosene; Perfluorotributylamine; Poly(perfluoropropylene oxide); Negative ionization, Magnetic sector 229(1990)163
- At. abs. spectrometry; Emission spectrometry; Gold; Platinum; Solvent extraction; Zeeman effect, Graphite furnace 229(1990)227
- Membrane probe; Organic compounds; Direct insertion 231(1990)175
- N.m.r. spectrometry; Humic substances; Soils; Waters; Fulvic acids; Isotope ratios; Amino acid analysis 232(1990)19
- Tagetes*; Leaf gland secretions; Thiophenes; Tandem 232(1990)253
- Waters; Sea water; Barium; Plasmas; Isotope dilution; Inductively coupled 232(1990)323
- Calcium; Accelerator; Bone; Rocks; Sample preparation 233(1990)101
- Flow system; Liquid chrom.; Spectrophotometry; Extraction; Organic pollutants; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119
- Isotope dilut. analysis; Lead; Pineapple; Foods; Isotope systematics; Soldered cans, Welded cans, Clean laboratory 235(1990)367
- Gas chromatography; Biomarkers; Hopanes; Petroleum; Triterpanes; Crude oil 235(1990)375
- Plasmas; Laser ablation; Rocks; Minerals; Geological materials; Inductively coupled 235(1990)381
- Gas chromatography; Extraction; Waters; Herbicides; Solid-phase extraction, Well water 236(1990)141
- Liquid chrom.; Gas chromatography; Pesticides; Pyrimidinol; Corn 236(1990)173
- Hydrogen; Stainless steel; Spark source, Ion-source baking, Cryogenic pump 236(1990)351
- Activ. analysis; Emission spectrometry; Rare earth elements; Rocks; Plasmas; Isotope dilution, Inductively coupled 236(1990)487
- Gas chromatography; Chloramphenicol; Urine; Eggs; Biological materials; Residues, Radioimmunoassay, Enzyme immunoassay 237(1990)61
- Semiconductors; Fourier transform ion cyclotron resonance, Chemical vapour deposition reagents 237(1990)83
- Structure determination; Computer program; Proteins; Peptides; Antibiotics; MASSPEC, Graphics-based data system 237(1990)459
- Fermentation gas analysis; Error analysis; Process analysis; Poly- $\beta$ -hydroxybutyrate, *Alcaligenes latus*, *Bacillus subtilis* 238(1990)101
- Liquid chrom.; Recombinant human epidermal growth factor; Reversed-phase, Fast atom bombardment 239(1990)301
- Proteins; Serum albumin, Multiply charged proteins, Collisionally activated dissociation, Electrospray ionization 241(1990)167
- Biological samples; Proteins; Glycoproteins; Oligonucleotides; Carbohydrates; Matrix-assisted UV/laser desorption/ionization 241(1990)175
- Laser desorption ionization; Ion cyclotron resonance; Oligosaccharides; Neuramic acid acetal groups, Pyruvic acid acetal groups 241(1990)187
- Peptides; Hybrid tandem, Daughter ion abundance, Leucine-enkephalin, RF-only quadrupole collision cell 241(1990)201
- Probe design; Pharmaceuticals; Continuous-flow fast atom bombardment 241(1990)209
- Bioorganic molecules; Formylaminoethanol; Oligosaccharides; Peptides; Fast atom bombardment, Matrix 241(1990)219
- Ionization processes; Hydrochloric acid; Diethanolamine; Fast atom bombardment, Aggregate ions 241(1990)227
- Porphyrins; Alkylporphyrins; Fast atom bombardment, Copper-induced dealkylation 241(1990)233
- Biological samples; Plasma desorption, Interferences, Vacuum Pump oil, Aluminium oxide clusters 241(1990)241
- Trace metals; Isotopes; Clinical analysis; Fast atom bombardment, Monohydride formation 241(1990)249
- Sample preparation; Protein metabolism; Urine; Protein turnover; Cation-exchange resin, Urinary ammonium, Isotope ratio, Continuous flow, Conway microdiffusion 241(1990)255
- Adamantanamines; Biological samples; Pharmaceuticals; Mass fragmentography 241(1990)261
- Estradiol palmitate; Tandem mass spectrometry 241(1990)265

Carbamoylamino acids; Urine; Urea cycle disorder; Fast atom bombardment, Tandem, *tert*-Butyldimethylsilyl derivatives 241(1990)273

Porphyrins; Metalloporphyrins; Fast atom bombardment, Demetallation 241(1990)281

Aminoandrostane quaternary salts; Steroids; Pipecuronium bromide; Fast atom bombardment, Arduan 241(1990)289

Biomineralization; Biomaterials; Bone; Teeth; Secondary ion 241(1990)299

Proteins; Plasma desorption, Liquid secondary ion 241(1990)315

Glycoproteins; Endoglucanase I; Time-of-flight, UV laser desorption, Plasma desorption, *Trichoderma reesei* fungus 241(1990)321

Solid samples; Spark source, Graphite rod electrode, Silver acrylic paint 242(1991)117

Spectrophotometry; I.r. spectrometry; Iron(II) complexes; Ethanedial; Glyoxal; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Pattern recognition; Molecular speciation; Microparticles; Principle component analysis; Canonical discriminant analysis; Nickel compounds; Laser microprobe 243(1991)139

Gas chromatography; Chlorotriazine pesticides; Organophosphorus pesticides; Pesticides; Soils 243(1991)259

Liquid chrom.; Mycotoxins; Paspalitrems; Paxilline, Paspaline, Paspalinine, Paspalicine, Diode-array detection, Computer library matching 244(1991)1

Gas chromatography; Water; Pesticides; 2,2-Dimethoxypropane 244(1991)9

Boron; Titanium; Plasmas; Inductively coupled; Reference material, Homogeneity 244(1991)115

Plasmas; Lithium; Biological samples; Serum; Foods; Inductively coupled, Standard Reference Materials 244(1991)259

Plasmas; Isotope dilution; Sea water; Uranium; Waters; Marine sediment pore waters 245(1991)83

Air; Benzene; Charge exchange; Chloroethyl ethyl sulphide; Low-level air pollutants 245(1991)267

Fatty acid esters; Collision-induced dissociation, *B/E* linked scans 246(1991)187

Kinetic analysis; Gas chromatography; Polynuclear aromatic hydrocarbons; Halogenated hydrocarbons; Chemical ionization, Fourier transform ion cyclotron resonance 246(1990)199

Collision-activated dissociation; Sustained off-resonance irradiation, Fourier transform, Infrared multiphoton dissociation 246(1991)211

Ion isolation; Fourier transform ion cyclotron resonance, Notch excitation, Selective ion partitioning, Dual cell 246(1991)227

Gas chromatography; Pattern recognition; Expert system; Low-resolution mass spectra; Volatile organic compounds; MAXMASS 246(1991)391

Biological samples; Liquid ionization; Sweat; Diethylene glycol, Exercise 246(1991)405

Algorithm; Isotope distribution 247(1991)107

Gas chromatography; Foods; Honey; Pentachlorophenol; Sep-Pak extraction 247(1991)121

Mifentidine; Histamine 247(1991)151

Cyclic nucleotides; Enzymes 247(1991)161

Cyclic nucleotides; Fast atom bombardment mass spectrometry 247(1991)177

Fast atom bombardment; Ribomononucleotides (isomeric) 247(1991)187

Gas chromatography; Dimethyladenosine; Urine 247(1991)201

Gas chromatography; Formebolone metabolism; Steroids, anabolic 247(1991)211

Gas chromatography; Carboxylic acids, short chain; Feces; Ion-trap detector 247(1991)223

Gas chromatography; Blood; Ifosfamide 247(1991)229

Collision-induced dissociation; Ethylguanine isomers; Laser desorption; Fourier transform 247(1991)235

Gas chromatography; Methylmalonic acid; Urine; Ion-trap detector 247(1991)243

Gas chromatography; Heroin; Isotope ratio; Geographical origin 247(1991)249

Gas chromatography; Amino acids; Protein synthesis 247(1991)255

Proteins; Molecular ion ejection mechanisms 247(1991)265

Deuterium labelling; Metabolic studies 247(1991)277

Soft ionization techniques; Lipids; *Serratia marcescens* 247(1991)283

Gas chromatography; Olive oil; Cinnamic acid ethyl ester, 4-Vinylphenol 247(1991)295

Algorithms; Elemental analysis 248(1991)71

X-ray fluore. spectrometry; Glassy carbon electrodes; Scanning electron microscopy; Surface analysis; Electrochemical modification, Solid-state characterization 248(1991)127

Biological samples; Boron; Nebulization; Inductively coupled plasma, Isotope ratio 248(1991)229

Peptides; Proteins; Time-of-flight mass spectrometer; Matrix-assisted, Laser desorption, Pulsed nitrogen laser 248(1991)541

Adipokinetic hormones; Hormones; Peptides; Structure determination; *Locusta migratoria*, Fast atom bombardment, Tandem 248(1991)553

Liquid chrom.; Electrophoresis; Ion exchange; Chromatography; Histone H2A (1-53)-NH<sub>2</sub>; Peptides; Synthesis, Purification, Characterization 249(1991)215

Biological samples; Plasmas; Inductively coupled, Bovine liver, Fish tissue 249(1991)495

Elemental analysis; Laser desorption; Plasmas; Inductively coupled, Time-of-flight 250(1991)61

Biological samples; Macromolecules; Tandem sector mass spectrometers; Fourier transform 250(1991)105

Flow system; Fluorimetry; Spectrophotometry; Raman spectrometry; I.r. spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157

Gas chromatography; Alternating regression; Component reconstruction; Spectral primary space 250(1991)169

### Microscopy

Voltammetry; Iridium; Mercury film electrode 221(1989)305

## N

### Neutron activation

Reference material; Sediment 223(1989)287

Emission spectrometry; Copper isotope; Dietary copper; Hair; Direct-current argon plasma 225(1989)185

### Nuclear magnetic resonance spectrometry

Titrimetry; I.r. spectrometry; Mass spectrometry; Quinoline derivatives; Oxidation by vanadium(V) 204(1988)77

Similarity search; Data base, Proton 206(1988)173

Metformin hydrochloride; Pharmaceuticals 208(1988)321

Computer-aided recognition structures; Chemical shift, Charge density, Carbon-13 209(1988)29

Computer-stored spectra; One-bit quantization 209(1988)271

I.r. spectrometry; Knowledge base; Numerical data; Acquisition, Dissemination, Retrieval 210(1988)81

Microcomputer-based search system 210(1988)89

Computer assisted structure elucidation; Correlations, Carbon-13 210(1988)163

Computer-based structure characterization 216(1989)57

I.r. spectrometry; Spectrophotometry; Calcichrome structure 217(1989)31

Artificial intelligence; Prediction of spectra; Carbon-13, Coding sys.,em 217(1989)85

Magnetic resonance imaging agents; Stability of iron complexes 217(1989)391

Competitive equilibrium constants 220(1989)171

Pattern recognition; Auto-optimization 221(1989)345

Principal components; Hydrocarbon mixture 223(1989)123

Liquid chrom.; Methylstyrenes 225(1989)409

Chemical shift; Computer 229(1990)17

Mass spectrometry; Humic substances; Soils; Waters; Fulvic acids; Isotope ratios; Amino acid analysis 232(1990)19

Humic acids; Soils; Sediments; Philippines 232(1990)31

Spectrophotometry; Fluorimetry; I.r. spectrometry; Fulvic acids; Laurentian, Colour origin 232(1990)43

Contrast agents; Computer simulation; Plasma; NMR imaging, Diethylenetriaminepentaacetic acid complexes, Equilibria 233(1990)85

Organic compounds; Parameter set; sp<sup>3</sup>-Hybridized carbon atoms, <sup>13</sup>C chemical shift prediction 233(1990)213

Pheromones; Dienes; Configurations; Fuzzy classification; <sup>13</sup>C chemical shifts 233(1990)223

Acyclic hydrocarbons; Computer prediction; <sup>13</sup>C chemical shifts, Microcomputer program, Beierbeck-Saunders approach 233(1990)315

Carbon-13 nuclear magnetic resonance; Computer-aided; Terpenoid identification; Natural products 236(1990)501

Computer program; Line shapes 239(1990)157

Computer program; Spectral assignment 242(1991)37

Chemical shift; Computer program 242(1991)43

Computer-assisted spectral simulation; Isoquinolines; Quinolines; Models, Library searches, Multiple linear regression 248(1991)183

Chemical shift prediction; Hybridized carbon atoms 248(1991)415

## P

### Pattern recognition

Chromatography; *k*-Nearest-neighbour, Peak recognition 201(1987)153

Chromatography; Distance measures, *k*-Nearest-neighbour 201(1987)171

Emission spectrometry; Archaeological glass; Origin, Supervised learning, Optical emission spectrography 201(1987)289

Biochemical assays; Liver function 202(1987)175

Polynuclear aromatic hydrocarbons; Prediction of carcinogenicity 202(1987)237

Probabilistic classification; SIMCA, ALLOC, CLASSY, LDA 209(1988)1

Disjoint classification program 209(1988)265

China, Review 210(1988)175

Mass spectrometry; Inductive expert system; Toxic compounds; SIMCA class modeling 211(1988)11

Animal feeds; Fodder plants; Rumen bacteria; Enzymatically changed, Genetic varieties 213(1988)177

Conductometry; Odour-sensing system; Semiconductor gas sensors 215(1988)155

Mass spectrometry; Artificial-intelligence program; Spectral feature/substructure relationships; Automated elucidation, Tandem 215(1988)169

Gas chromatography; Mass spectrometry; T.l.c.; Spatial resolution; Secondary ion, Phase-transition matrix 218(1989)217

Multivariate classification; Variable selection, Sample size 220(1989)119

N.m.r. spectrometry; Auto-optimization 221(1989)345  
221(1989)353

Fluorimetry; Gas chromatography; Mass spectrometry; Oil-spill identification 222(1989)135

Classification; Supervised technique; Sample size 223(1989)19  
Compatibility; Eigenvector; Triterpane; Oil 223(1989)45



Principal components; Pharmaceutical analysis 223(1989)149

Principal components; Data bank; Food chemistry 223(1989)223

Principal components; Glass technology; Photochromic material 223(1989)247

Fish; Mullet species discrimination, Classification, Prediction, Biometric and chemical variables 233(1990)143

Flow system; Response surface mapping; Automated optimization; Simplex optimization 237(1990)361

Linear discriminant analysis; Outlier detection, Hawkins' method 239(1990)229

Eye cataracts; Trace metals 242(1991)11

Gas sensor array; Multivariate Techniques 242(1991)31

Mass spectrometry; Molecular speciation; Microparticles; Principle component analysis; Canonical discriminant analysis; Nickel compounds; Laser microprobe 243(1991)139

Gas chromatography; Liquor aromas; Headspace concentration; Gas sensor array; Semiconductor 243(1991)293

Supervised learning; Environmental analysis; Class-in-class modelling 243(1991)311

Gas chromatography; Mass spectrometry; Expert system; Low-resolution mass spectra; Volatile organic compounds; MAXMASS 246(1991)391

Discriminants; Training sets 249(1991)305

Piezoelectric sensors; Acetoin; Alcohols; Amyl acetate; Menthone; Neural network; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

**Phosphorimetry**

Phenothiazine derivatives; Paper-substrate, Enhanced 204(1988)247

Purines; Heavy-atom effects, Room-temperature 205(1988)273

Surface analysis of tablets; Room-temperature 205(1988)279

T.l.c.; Methylumbelliferone; Low-temperature 212(1988)213

Aluminium; Dialysis fluids; Waters; Room-temperature, Ferron chelate in micellar media 212(1988)235

Cyclodextrin enhancement; Organic compounds; Room-temperature 217(1989)171

Blood serum; Rodenticide; Warfarin; Room-temperature phosphorescence 222(1989)177

Anthracene; Room-temperature, Solid substrate 225(1989)415

Fluorimetry; Coumarinsulphonyl chloride; Synthesis 227(1989)145

T.l.c.; Fluorimetry; Amino acid; Coumarinsulphonyl chloride; Ion-pair 227(1989)155

Biacetyl; Fat; Room temperature 227(1989)319

Flow system; Sample introduction; Continuous, Solid-surface room-temperature 231(1990)289

Flow system; Aluminium; Micelle, Water, Dialysis fluid, Ferron chelate 234(1990)233

Purines; Room-temperature phosphorescence enhancement, Thallium(I), Sodium dodecyl sulphate, Filter-paper 236(1990)257

Chemiluminescence; Fluorimetry; Aluminium; Milk powder; Liquid room temperature, Ferron, Vesicles 238(1990)297

Liquid chrom.; Caffeine; Theophylline; Theobromine; Solid-surface room-temperature 244(1991)215

### **Photoacoustic spectroscopy**

Gases; Sulphur dioxide; Ultraviolet laser 218(1989)101

Reflectance spectrometry; Silica with hydroxamic acid groups; Synthesis 219(1989)201

Gas chromatography; Hydrocarbon; Mercury 226(1989)99

Phosphorus; Molybdenum blue, Anion-exchange resin beads 233(1990)135

Diethyl ether; Overtone spectroscopy; Pyroelectric detector, Laser power 240(1991)377

Acoustic emission characterization; Potassium nitrate recrystallization; Polymer stressing; Descriptor distributions 246(1991)23

Photoacoustic spectroscopy; Acoustic emission; Enzyme reactions; Catalase, Hydrogen peroxide, Oxygen effervescence 246(1991)43

Adsorption isotherms; Gases; Humidity correction algorithm; Surface acoustic wave sensors 248(1991)337

### **Piezoelectric sensing**

Nitrogen dioxide; Manganese dioxide-coated quartz 207(1988)67

Cyclic voltammetry; Silver; Adsorption 209(1988)213

Physical parameters of liquids; Oscillation behaviour 212(1988)61

Iodide; Waters 215(1988)79

Endotoxin; Viscosity monitoring; Gelation of *Limulus* amoebocyte lysate 215(1988)91

Sulphur dioxide; Organophosphine transition metal complexes 217(1989)101

Antibody-coated sensors; Pesticides; Toluene; Film-free 217(1989)111

Hydrogen sulphide 217(1989)187

Fibrinogen; Quartz-crystal gelation detector 217(1989)321

Bromide; Catalysis of permanganate/iodide reaction 217(1989)327

Acoustic wave sensors; Quartz acoustic wave crystal; Etched crystal, Aminopropyltriethoxysilane film 248(1991)143

Liquid chrom.; Quartz crystal; Electrode-separated 248(1991)329

Pattern recognition; Acetoin; Alcohols; Amyl acetate; Menthone; Neural network; Odorants; Olfactory system; Back-propagation algorithm, Lipid-coated AT-cut quartz crystals 249(1991)323

### **Polarimetry**

Liquid chrom.; Erythromycin; Laser 221(1989)239

## Polarography

see also A.c. polarography, D.c. polarography, Differential pulse polarography, Pulse polarography

Conductometry; Crown ether complexes; Stability constants; Divalent cations 201(1987)117

H.p.l.c.; Grapes; Sulphur residues; Wheat; Sampled d.c., Differential pulse 207(1988)305

Kinetic analysis; Biological samples; Paraquat; Photoreduction; Soils; Waters 209(1988)79

Saliva; Thiocyanate; Linear-sweep 212(1988)43

Iron speciation; EDTA complexes 212(1988)335

Chlorine; Phenylthiourea solutions; Waters; Linear-sweep, Active 215(1988)37

Ion exchange; Molybdenum; Seawater; Tungsten; Waters; Catalytic current, Preconcentration 218(1989)25

Biosensor; Fish meat; Hypoxanthine; Xanthine oxidase 221(1989)215

Cadmium; Lead; Stability constant; Oxalate, Sulphate 223(1989)429

Potentiometry; Bromopyridinium ion; Dissociation constant 224(1989)109

Ethanediamine; Lead; Thallium, Cadmium, Hydroxyl ion 226(1989)351

Cadmium; Polyacrylic acid; Polymethacrylic acid; Zinc 229(1990)93

Boiler water; Copper; Dimethyl aminopropanol; Volatile amine 229(1990)149

Nickel; Pilocarpine 230(1990)97

Nitrite; Sausage; Water; Single-sweep 230(1990)105

Electrochemical mechanisms; Knowledge-based system; Sampled d.c., Tast, Automatic 231(1990)59

Surfactants; Tensammetry; Non-ionic, Hanging mercury drop electrode, Adsorption errors 231(1990)77

Dropping mercury electrode; Cobalt-ammonia complexes; Reduction mechanism; Stability constants 231(1990)143

Voltammetry; Phytoplankton bloom; Surface-active substances; Humic substances 232(1990)131

Quinones; Naphthoquinones; Benzoquinones; Bioreductive quinones, Mitomycin, Aziridinylquinone, Antitumour agents 233(1990)251

Flow system; Nitrate; Waters; Uranyl ion 234(1990)475

Anod. stripping voltammetry; Mercury microelectrodes; Non-conducting polymer coatings, Poly-N-ethyltyramine, Dithiocarbamate ligands 235(1990)451

Amperometry; Titrimetry; Colloidal electrolytes; Dodecylquinolinium bromide; Potassium dichromate, Potassium hexacyanoferrate(III), Ammonium molybdate 236(1990)325

Enzyme electrode; Amplification; Glutamate; Alanine 236(1990)437

Hair; Zinc; Lead; Copper; UV irradiation, Polarographic adsorptive complex waves 238(1990)367

Complexation; Tin; Dimethylformamide; Acetonitrile; Free energy of transfer, Stability constants 242(1991)295

Progesterone; Surfactants; Linear sweep, Cetyltrimethylammonium bromide 248(1991)103

Potentiometry; Cadmium; Coated-wire electrodes; Ion-selective electrodes; Neutral carrier, 4,4'-di(5-nonyl)-2,2'-bipyridine, Selectivity coefficients 248(1991)315

Cobalt; Reduction mechanism; Malonate complexes, Succinate complexes 248(1991)409

Thermom. analysis; Aromatic compounds; Biosensors; Oxygen electrode; *Pseudomonas cepacia*; Calcium alginate gel, Metabolism 249(1991)17

## Potentiometry

Flow system; Mercury; Water; Fibre electrodes, Computerized, Constant-current stripping 201(1987)1

Flow system; Arsenic; Sea water; Constant-current stripping, Gold fibre electrodes 201(1987)263

Flow system; Air; Mercury; Computerized flow constant-current stripping, Gold fibre electrode 201(1987)269

Air; Hydrogen chloride; Diffusion/denuder tubes 202(1987)49

H.p.l.c.; Coal; Fluorine; Minerals; Pyrohydrolysis 202(1987)61

Bismuth; Copper; Mercury; Urine; Constant-current stripping, Gold fibre electrode 202(1987)117

Antimony speciation; Waters; Flow constant-current stripping, Gold fibre electrodes 202(1987)123

Flow system; Enzyme-modified field effect transistor; Urea 202(1987)131

Coulometry; Titrimetry; Alkali metal halides; Trivalent metal sulphates; Hydrogen/palladium electrode 202(1987)231

Concentration cell; Copper; Copper selenide membrane 203(1987)79

Flow system; Chemical sensor testing; Urease sensor; On-line analysis 204(1988)7

Sulphide sensor; Air-gap 204(1988)213

Sodium-selective electrode; Methyl *p*-*t*-butylcalix[4]aryl acetate 204(1988)223

Flow system; Photo-cured polymer membrane; Potassium-selective electrode; Valinomycin 204(1988)329

Ion-selective electrodes; Review 206(1988)1

Plasma; Pyridostigmine; Enzymatic 206(1988)57

Titrimetry; Equivalence volumes; Review 206(1988)111

Aspartame; Sweeteners; Enzyme electrode 206(1988)369

Kinetic analysis; Organic iodine-containing compounds 206(1988)375

Flow system; Cadmium; Lead; Nafion-modified carbon fibre electrodes; Urine; Zinc; Computerized flow, Stripping 207(1988)17

Flow system; Silver; Constant-current stripping 207(1988)27

Flow system; Arsenic; Seawater; Urine; Constant-current stripping 207(1988)37

Alcohol-FET sensor; Blood ethanol; Enzyme system 207(1988)77

pH Reference value standards; 2-Propanol/water mixtures 207(1988)211

- Flow system; Antilog converter 207(1988)325
- Flow system; Fluoride-selective electrode; Horseradish peroxidase; Milk; Turnip extract 208(1988)173
- Computerized instrument; Fluoride selective electrode; Waters; Battery-powered, Field-based, Metal-oxide semiconductor 208(1988)195
- Flow system; Cobalt; Nickel; Constant-current stripping, Carbon fibre electrodes 208(1988)237
- Potassium ion-selective electrode; Pyridine-based macrocyclic ionophore 208(1988)283
- Flow system; Gold; Computerized flow, Constant-current stripping, Carbon or platinum fibre electrodes 208(1988)301
- Flow system; Enzyme reactor; Penicillin; Pharmaceuticals 209(1988)123
- Flow system; Blood; Urea; Ammonium electrode, Immobilized urease 209(1988)239
- Flow system; Blood; Lead; Computerized stripping 209(1988)339
- Titrimetry; Hexacyanoferrate(II) electrodes; Solid-state 209(1988)345
- Di-isopropyl fluorophosphate electrode; Squid nerve tissue, Fluoride electrode 209(1988)351
- Titrimetry; Coated wire electrode; Palladium halide complex; PVC membrane, Aluminium 209(1988)357
- Chronopotentiometry; Knowledge-based system; Elucidation of electrode reaction mechanisms 211(1988)61
- Flow system; Calcium selective electrodes 211(1988)213
- Titrimetry; Monoaza crown ethers; Complexation properties 211(1988)223
- Voltammetry; Carbon fibre electrodes; Hydrogen ion concentration 212(1988)23
- Glucose-sensitive field-effect transistor; Two-enzyme membrane 212(1988)49
- Titrimetry; Copper interactions with ligands; Humic-like substance, Fulvic acids 212(1988)105
- Fluorine; Plants; Vegetables; Open-flame ashing, Microdiffusion 212(1988)133
- Sodium ion membrane electrode; Crown ether, PVC 212(1988)325
- Biosensors; Enzyme electrodes; Review; Electronic, Optoelectronic 213(1988)23
- Amperometry; Fermentation processes; Microbiological sensors; Review 213(1988)69
- Flow system; Proteins; Streaming potential; Affinity column 213(1988)79
- Voltammetry; Flow system; Fluorimetry; Bioreactors; Yeasts; High-performance, On-line sensors 213(1988)199
- Gas chromatography; Voltammetry; Microbial reaction rates; Sediment suspensions; Apparatus 213(1988)221
- Ammonium selective microelectrode; Gradients in immobilized urease 213(1988)259
- Flow system; Conductometry; Spectrophotometry; Fluorimetry; Automated micro batch analyser; Microcomputer control 214(1988)107
- Flow system; Chlorine; Waters 214(1988)349
- Flow system; Computerised data-acquisition; Multi-ion sensor cell 214(1988)359
- Flow system; Ammonia; Hydrazine; pH; Power plant steam cycle 214(1988)367
- Bromide; Silver complexes stability constants; Thiocyanate; Monte Carlo methods 215(1988)187
- Flow system; Cyanide; Heterogeneous membrane electrodes; Gas diffusion 215(1988)283
- Cation selectivity of crown ethers; 13-Crown-4 and bis(13-crown-4) derivatives 215(1988)289
- Field-effect transistor; Hypoxanthine sensor; Uric acid; Amorphous silicon 215(1988)301
- Ion-selective electrode mechanisms 216(1989)163
- Fluorimetry; Calcium-selective optrode; Langmuir-Blodgett film 217(1989)1
- Sulphite electrode; Polymeric-membrane 217(1989)123
- Choline-sensitive membrane electrode; Phosphatidylcholine; Serum 217(1989)193
- Dinitrophenolate electrode; Honey; Reducing sugars 218(1989)37
- Titrimetry; Calcium; Magnesium; Waters 218(1989)47
- Monitoring in organic solvents; Enzyme electrode 219(1989)27
- Flow system; Ion exchange; Halides 219(1989)55
- Kinetic analysis; Pharmaceuticals; Phytic acid; Urine; Crystalline growth of calcium oxalate 219(1989)89
- Voltammetry; Computerised system; Nickel; Chronopotentiometric experiments 219(1989)105
- Potassium selective electrode; Ultraviolet laser cured membrane 219(1989)135
- Potassium selective electrode; Comparison, Monoaza crown ethers, plasticizers 219(1989)141
- Titrimetry; Calcium; Oil-based drilling fluids 219(1989)147
- Titrimetry; Boron; Metal borides; Multiparametric curve-fitting 219(1989)273
- Kinetic analysis; Cephalixin; Cetyltrimethylammonium bromide; Pharmaceuticals; Sulphamethizole; Micellar catalysis 219(1989)295
- Ammonia; Gas-permeable tubular membrane 219(1989)309
- Fluoride; Ores; Slags; Direct fusion 219(1989)335
- Nitrate-selective microelectrodes; Sediments 219(1989)351
- Least-squares evaluation; Linearized equations; Metal/ligand equilibrium 220(1989)145
- Titrimetry; Lanthanide complexation; *trans*-1,3-Cyclopentanediaminetetraacetic acid 220(1989)187
- Flow system; Photographic fixers; Silver; Indirect 220(1989)287

- Neutral carrier; Ion selectivity coefficient, Ion-selective electrode 221(1989)117
- Flow system; Octadecyl isonicotinate; Tridodecylamine; Neutral carrier 221(1989)139
- Biosensor; Creatinine; Urea; Enzyme field-effect transistor, Ion-selective electrode 221(1989)157
- Titrimetry; (Iodimetry) 221(1989)341
- Glutamate oxaloacetate transaminase; Glutamate pyruvate transaminase; Pyruvate; Pyruvate oxidase; Enzyme electrode 222(1989)83
- Ion exchange; Liquid chrom.; Alkali metal ion; Potassium ion; Valinomycin; Replacement ion chromatography 222(1989)95
- Ion exchange; Liquid chrom.; Ion chromatography, Silver/silver bromide electrode 222(1989)109
- Barium; Ion-selective electrode 222(1989)211
- Naphtho-crown ether; Poly(vinyl chloride); Potassium; Ionophore 222(1989)253
- Flow system; pH; Field effect transistor 222(1989)373
- Titrimetry; Liquid-propulsion system 222(1989)379
- Titrimetry; Thermom. analysis; Computer program 222(1989)385
- Algorithm; Equilibrium constant 223(1989)419
- Liquid junction; pH 223(1989)441
- Lanthanum polyalkoxylate complex; Plasticizer; Poly(vinyl chloride) 223(1989)449
- Polarography; Bromopyridinium ion; Dissociation constant 224(1989)109
- Cobalt phthalocyanine; Phosphate; Poly(vinyl chloride); Coated-wire/field-effect transistor 224(1989)145
- Kinetic analysis; Lactose; Sucrose; Periodate-selective electrode 224(1989)159
- Control chart; Gas-sensor; Semiconductor 225(1989)89
- Concentration cell; Fluoride; Standard addition 225(1989)97
- Flow system; Metal cyanide complex; Silver electrode 225(1989)105
- Titrimetry; Gran plot 225(1989)205
- Penicillin; Penicillin amidase; Sensor; Field effect transistor 226(1989)87
- Titrimetry; Diquat; Ion-pair; Paraquat; Bisquaternary cation 226(1989)177
- Flow system; Gradient chamber 226(1989)229
- Flow system; Acidity constant; Gradient chamber; Weak acid 226(1989)239
- Sensor; Textile material; Microelectrode 226(1989)247
- Spectrophotometry; Stability constant 226(1989)323
- Kinetic analysis; Ascorbic acid; Biotin; *N*-bromosuccinimide; Pyridoxine hydrochloride; Thiamine hydrochloride 227(1989)405
- Ion exchange; Ferrocene; Glucose; Glucose oxidase; Siloxane polymer 228(1990)23
- Biosensor; Immobilization; Coated-wire electrode 228(1990)159
- Lead; Liquid-liquid interface; Neutral carrier 228(1990)241
- pH; Ion-selective electrode 229(1990)153
- Bacteria; Immobilization; Lysine; Lysine decarboxylase; Sensor; Calcium alginate 229(1990)197
- Calcium carbonate; Crystal growth; Phosphate; Urine 229(1990)249
- Autoprotolysis constant; Ternary solvent; Water-dioxane-methanol 229(1990)261
- Poly(hydroxyethyl methacrylate); Sensor; Silylation; Semiconductor, Ion-sensitive field effect transistor 230(1990)59
- Hydrophobic polymer; pH; Potassium; Ion-sensitive field effect transistor 230(1990)67
- Enzyme immunomicrosensor; Immunoglobulin; Ion-sensitive field-effect transistor 230(1990)189
- Liquid membrane electrodes; Perchlorate; Ion-pair complexes 231(1990)69
- Potassium; Blood; Serum; Ion-selective electrodes; Silicon rubber tubular electrode, Valinomycin-treated 231(1990)125
- Ion-selective electrodes; Copper; Iodide; Silver sulphide-based 231(1990)137
- Ion-selective electrodes; Trifluoroacetophenones; Anion selectivity; Neutral ionophores, Solvent-polymeric membranes 233(1990)41
- Flow system; Cyanide; Silver-wire electrode; Gas-diffusion separation; Membrane barrier, Selectivity 233(1990)77
- Calcium; Serum; Iminodiacetate complexation 233(1990)269
- Biosensor; Oxygen electrode; Ag/AgCl anode, Gold anode, Silicon wafer, Miniature Clark-type oxygen electrode, Semiconductor technique 233(1990)275
- Flow system; Spectrophotometry; Amperometry; Power plants; Process analysis; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167
- Flow system; Diethylbarbiturate; Tubular electrode; Pharmaceuticals 234(1990)221
- Diff. pulse polarography; D.c. polarography; Voltammetry; Controlled potential electrolysis; Aziridinylquinones; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285
- Copper electrode 234(1990)331
- Conductometry; Titrimetry; Phenolic acids; Triethylamine, Tetrabutylammonium hydroxide 234(1990)339
- Ion-selective electrode; Verapamil; Membrane electrode; Ion pair, Reineckate, Dibutyl phthalate plasticizer, Poly(vinyl chloride) 235(1990)461
- Ion-selective electrodes; Magnesium; Serum; Automated, Ionized 236(1990)331
- Titrimetry; Chromium; Steel; High-alloy, Reference method, Dissolution 236(1990)399
- Enzyme reactor; Pyridostigmine; Plasma; Calibration; Optimization 236(1990)431

Acetylcholine; Coated-wire electrode; Biosensors; Enzyme electrodes; Immobilized, Hydrogen ion-selective electrode 236(1990)441

Coated-wire electrode; Charge carrier, Ferrocene, Response time, Selectivity 236(1990)445

Allopurinol; Enzyme electrode; Biosensor; Carbon paste electrode, Xanthine oxidase 237(1990)91

Ion-selective electrodes; Ammonia; Nitrogen; Differential, Membrane, Gas-sensing 237(1990)115

Ion-selective electrodes; Phosphate glasses; Silver chloride; Alkali metal-free, Anion-selective, Ion chromatography, Electron probe microanalysis 237(1990)135

Ion-selective electrodes; Fluoride; Waters; Complementary metal oxide semiconductor device, Automated monitor, Battery operated 237(1990)345

Enzyme electrodes; Urea; Metal-metal oxide, Tungsten 237(1990)399

Titrimetry; Oxygen; Superconductors;  $x$  in  $YBa_2Cu_3O_{6.5+x}$  237(1990)421

Proteins; Immunological field-effect transistor; Donnan potential, Charge 238(1990)323

Ion-selective electrodes; Alkali metals; Alkaline earth metals; Polyacrylamide membrane, Acyclic poly(oxyethylene)neutral carriers, Thermodynamics 238(1990)351

Ion-selective electrodes; Membrane electrodes; Pharmaceuticals; Pancuronium; Tubocurarine; Gallamine; Succinylcholine; Muscle relaxants 238(1990)405

Ion-selective electrodes; Prussian blue; Potassium; Thin films, Membranes 239(1990)7

Peptides; Enzyme electrode; Coated-wire electrode, Trypsin,  $\alpha$ -Chymotrypsin 239(1990)13

Amino acids; Tyrosine; Phenylalanine; Membrane electrodes; Enzyme reactions; Decarboxylase 239(1990)23

Spectrophotometry; Monte Carlo simulation; Precision, Data acquisition, Optimization 239(1990)53

Flow system; Spectrophotometry; Voltammetry; Detectors; Ion-sensitive field effect transistors; Impulse-response functions 239(1990)245

Enzyme electrodes; Tungsten electrode; Urea; Immobilized, Urease 239(1990)269

Chromatography; Flow system; Ion exchange; Ion-selective electrodes; Calcium 242(1991)65

Array electrodes; Alkali metals; Prussian Blue coating, Interdigitated, Chemiresistors 242(1991)249

Biosensors; Chemoreceptors; Trimethylamine oxide; Crab antennular receptrodes; Hawaiian crabs 243(1991)157

Enzyme electrodes; Lactate; Flavocytochrome  $b_2$ ; Reagentless, Electrocatalytic oxidation 243(1991)167

Flow system; Organic compounds; Nickel oxide electrode 243(1991)279

Ion-selective electrodes; Potassium; Glassy carbon, Cobalt(II)-hexacyanoferrate(III) film 244(1991)39

Ammonia; Ion-selective electrodes; Air 244(1991)179

Titrimetry; Semiconductors; Gallium arsenide; Stoichiometry; Arsenic 244(1991)247

Titrimetry; Superconductors; Stoichiometry; Copper, Oxygen content,  $YBa_2Cu_3O_y$  244(1991)253

Iron; Foods; Derivative adsorption, 2-(5'-Bromo-2'-pyridylazo)-5-dimethylaminophenol 245(1991)77

Brønsted acids; Dissociation constants; Polyaza macrocycles; Polyoxa-polyaza macrocycles; Water, Deuterium oxide 245(1991)271

Algorithms; Standard additions 245(1991)283

Iodide; Ion-selective electrodes; Poly(methylthiophene) conducting film; Graphite-coated electrode 248(1991)163

Ion-selective electrodes; Water hardness; Neutral carrier 248(1991)177

Chloride; Ion-selective electrodes; Nitrate; Waters; Remote analysis station, Coated-wire 248(1991)285

Polarography; Cadmium; Coated-wire electrodes; Ion-selective electrodes; Neutral carrier, 4,4'-di(5-nonyl)-2,2'-bipyridine, Selectivity coefficients 248(1991)315

Alcohols; Membrane sensors; Potassium; PVC-valinomycin 248(1991)323

Flow system; Amperometry; Air; Chlorine; Gas detection; Hydrogen chloride; Continuous monitoring 248(1991)391

Titrimetry; Conductimetry/oscillometry; Mesoionic compounds; Photographic additives; Silver complexes; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248(1991)603

Antibody-based biosensors; Biosensors; Immunoglobulins; Receptor-based biosensors; Serum 249(1991)67

Immunoassay; Biosensors; Capacitance; Enterotoxin B; Semiconductors; Toxins; Antibody fixation, Grafted immunospecies 249(1991)367

Ammonia membrane electrode; Biosensor; Enzyme electrodes; Serum; Urea; Urease electrode; Activated poly(vinyl alcohol), Immobilized 249(1991)387

Enzyme electrodes; Fermentation broth; Milk; Penicillin; Glass pH electrode, Penicillinase 249(1991)405

Titrimetry; Hydrogen bonding; Schiff bases; Half-neutralization potentials, Perchloric acid titration 249(1991)427

# Principal component analysis

Electrotherm. atomization; At. abs. spectrometry; Milk; Trace metals; Cow 201(1987)253

Emission spectrometry; Plasmas; Inductively-coupled 206(1988)203

Electrotherm. atomization; At. abs. spectrometry; Mussels; Trace elements; Polluted and unpolluted 220(1989)135

Gas chromatography; Dinoflagellate toxin; Mussel 222(1989)35

I.r. spectrometry; Discriminant analysis, Multiple regression 223(1989)75

Mass spectrometry; Expert system; Toxic compounds 223(1989)105

N.m.r. spectrometry; Hydrocarbon mixture 223(1989)123



Pattern recognition; Pharmaceutical analysis 223(1989)149

Pattern recognition; Data bank; Food chemistry 223(1989)223

Pattern recognition; Glass technology; Photochromic material 223(1989)247

Spectrophotometry; Titrimetry; Copper; Ethanolamine; Salicylate 223(1989)257

Mass spectrometry; Spruce needle; Thermal degradation; Air pollution 223(1989)371

X-ray fluores. spectrometry; Glass-making 225(1989)69

Crude oil; Paraffin inhibitor; Oil additive 229(1990)267

Multivariate component analysis; Partial least squares; Trace metals; Tungsten wire 241(1990)147

Pattern recognition; Mass spectrometry; Molecular speciation; Microparticles; Canonical discriminant analysis; Nickel compounds; Laser microprobe 243(1991)139

At. abs. spectrometry; Oysters; Trace metals 248(1991)51

Chemometrics; Cluster analysis; Ethanol; Partial least squares; Solvent identification; Tin oxide thin-film sensor array 250(1991)257

## R

### Radiometry

Fluorimetry; Aminosilane; Protein; Thermally pretreated glass 228(1990)107

### Raman spectrometry

Chlorinated pesticides; Surface-enhanced 206(1988)333

Organic compounds; Surface-enhanced, Silver-coated filter paper 208(1988)21

Voltammetry; Electrochemical mechanism elucidation; Real-time surface-enhanced, Linear-sweep 212(1988)201

Ethanol; Fermentation process; Fructose; Glucose; Fibre-optic system 215(1988)211

Dye; Silver colloid; Surfactant; Surface-enhanced 225(1989)227

Silver substrates; Aminoacridine; Surface enhanced, Filter-paper, Silver membrane, Glass slide 237(1990)439

X-ray photoelectron spectroscopy; Auger electron spectroscopy; Tin; Antitarnish film; Ethylenediaminetetra(methylenephosphonic acid) 238(1990)399

Calibration; Carbon; Peak temperature history; Carbon phenolic heat-shields, Multivariate, Loading vectors 240(1990)35

I.r. spectrometry; Mirex; Pesticides; Hydrogen-substituted degradation products 240(1990)41

Laser; Iron electrodes; Microprobe spectroscopy 240(1990)87

Poly(vinyl chloride); Polyene sequence length; Dehydrochlorination; Resonance, Nickel(II) maleate 240(1990)97

Continuum resonance Raman scattering; Diatomic molecules; Halogens; Unimolecular dissociation 240(1990)119

I.r. spectrometry; Pressure tuning vibrational spectroscopy; Hydrostatic pressure, Sodium and potassium decanoate 240(1990)151

$\beta$ -Cyclodextrin 240(1990)225

I.r. spectrometry; Near infrared; Fourier transform 240(1991)239

I.r. spectrometry; Benzodiazepines; Nitrazepam; Nimetazepam; Clonazepam; Flunitrazepam; Fourier transform 240(1991)287

Ethylaluminium dichloride; Molten salts; Organochloroaluminate; Room temperature 240(1991)299

I.r. spectrometry; Methylbut-1-yne; Dimethylbut-1-yne 240(1991)317

Spectrophotometry; Flow system; Dimethyldiphenylbenzidine; Electrolysis; Electrooxidation; Homogeneous solution, Time-resolved 240(1991)329

Curing reactions 240(1991)339

I.r. spectrometry; 4,4-Dimethyl-2-pentyne 240(1991)389

I.r. spectrometry; Dimethylethyleneurea; Dimethylimidazolidinone; Deuterated 240(1991)395

Tripeptides; Surface enhanced, Colloidal silver 246(1991)75

Flow system; Fluorimetry; Spectrophotometry; I.r. spectrometry; Mass spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157

### Reflectance spectrometry

Spectrophotometry; Immobilized acid-base indicators; Diffuse 207(1988)343

Calcium ion sensor; Optical sensor; Chromogenic crown ether 213(1988)251

Flow system; Creatinine; Serum; Gas diffusion 214(1988)147

Opto-acoustic spectroscopy; Silica with hydroxamic acid groups; Synthesis 219(1989)201

Fluorimetry; Fibre optic; In situ; Poly(vinyl chloride); Sensor; Trinitrotoluene 221(1989)1

### Ring oven

Review 202(1987)25

## S

### Spectrophotometry

Electrotherm. atomization; Fuel oils; Sulphur; Carbon sulphide molecules 201(1987)59

Flow system; Hydrogen peroxide; Seawater; Reagent-injection 201(1987)83

Nitric acid; Transport behaviour; Ultracentrifuge; Water; Tributyl phosphate/*n*-dodecane mixtures 201(1987)135

- Salicylic acid; Savitzky-Golay smoothing; Second-derivative 201(1987)301
- Flow system; Fluorimetry; Europium; On-line reduction 201(1987)339
- Flow system; Copper; Microemulsions 201(1987)345
- T.L.c.; Isoniazid; Pharmaceuticals; Second-derivative, Scraped-spot 201(1987)357
- Flow system; Etoposide; On-line electrochemical derivatization; Plasma; Teniposide; Diode-array detection 202(1987)35
- Coulometry; Titrimetry; Amperometry; Cell design 202(1987)75
- Gel perm. chromatography; Copper/flavonoid complexes; Vegetables 203(1987)23
- Foods; Phosphate; Stopped-flow, Time-difference 203(1987)35
- Experimental design; Niobium; Differential 203(1987)67
- Flow system; Kinetic analysis; Paracetamol; Single bead-string reactor; Optimization 204(1988)29
- Flow system; Ion exchange; Arsenate; Phosphate; Silicate 204(1988)53
- H.p.l.c.; Calcium; Magnesium; Water; Post-column reaction 204(1988)87
- Alkaline earth ions; Crown ether dyes; Extraction; Synthesis 204(1988)113
- Flow system; Molasses; Sucrose; Sugar-cane juice 204(1988)259
- Data-acquisition schedules; First-order decay of an absorbing species; Optimization 204(1988)295
- Colour changes of indicators; Computer program 204(1988)311
- Emission spectrometry; Plasmas; Silica speciation; Waters; High-purity, Inductively coupled 204(1988)339
- Hydrogen peroxide 204(1988)349
- Chemical reagents; Manganese; Plants 204(1988)355
- Catalysts; Extraction; Rhenium; Microcrystalline benzophenone 204(1988)359
- Extraction; Niobium; Steels 204(1988)365
- Chemiluminescence; Bis(2,4-dinitrophenyl)oxalate degradation 205(1988)207
- Kinetic analysis; Bromide; Waters 206(1988)273
- Ion exchange; Conductometry; H.p.l.c.; Anions; Waters; Tiron eluent 206(1988)281
- Organophosphorus pesticides; Waters; Oxygen-flask combustion 206(1988)299
- Flow system; Acids; Bases 206(1988)313
- Barium; Extraction; Geological samples 206(1988)363
- Experimental design; Multicomponent determinations 207(1988)125
- Extraction; Trace metals; Waters; 1,3-Dimethyl-4-acetyl-2-pyrazolin-5-one 207(1988)137
- Kinetic analysis; Nuclear fuels; Technetium; Vegetation 207(1988)233
- Flow system; Aluminium; Waters 207(1988)337
- Reflectance spectrometry; Immobilized acid-base indicators; Diffuse 207(1988)343
- Extraction; Palladium 207(1988)373
- Kinetic analysis; Competitive binding; Riboflavin; Urine; Homogeneous enzyme-linked 208(1988)31
- Kinetic analysis; Biotin; Competitive binding; Vitamin tablets; Homogeneous enzyme-linked 208(1988)43
- Fluorimetry; Ammonium; Urine; Gas-diffusion membrane, pH indicator 208(1988)81
- Extraction; Steels; Tungsten 208(1988)91
- Flow system; Animal tissues; Creatine 208(1988)307
- At. abs. spectrometry; Extraction; Sulphide; Fluoride; Phosphate 208(1988)313
- Flow system; Chlorine; Waters; Residual 208(1988)317
- Coulometry; Hydrolysis of complex ion; Spectrocoulometric study; Tris(1,10-phenanthroline)iron(III) 209(1988)87
- Flow system; Conductometry; Critical micelle concentrations; Surfactants; Ionic, Nonionic 209(1988)111
- Flow system; Gas-diffusion flow-injection; Optimization 209(1988)157
- Ampicillin; Cloxacillin; Derivative spectroscopy; Pharmaceuticals 209(1988)175
- Minerals; Steels; Vanadium; With methoxypromazine maleate 209(1988)293
- Flow system; Biological tissues; Phosphorus; Aluminium block digestion 209(1988)299
- Ascorbic acid; Pharmaceuticals 209(1988)309
- Chromium; Hydrogen peroxide interference, Diphenylcarbazide 209(1988)315
- Chloramines; Chlorine; Ultraviolet absorption spectra; In carbon tetrachloride 209(1988)321
- Germanium; Rocks; Adsorption on Sephadex 209(1988)333
- Flow system; Multicomponent determinations; Partial least squares modeling 211(1988)1
- Flow system; Monosaccharides; Strongly oxidizing agents; Manganese(VI), Copper(III) 211(1988)99
- Phosphorus; Waters; Vanadomolybdophosphate 211(1988)119
- Ion exchange; Boron; Geological materials 211(1988)243
- Flow system; Alcoholic beverages; Enzyme reactor; Glucose; NADPH formed 211(1988)281
- Humic substances; Iron; Waters 211(1988)293
- Bismuth; Copper-base alloys; Extraction 211(1988)305
- Niobium; Reversed matrix representation; Tantalum; Multicomponent mixtures 212(1988)145
- Kinetic analysis; Cobalt; Nickel; Resolution of binary mixtures; Interpolation 212(1988)223
- Flow system; Copper; Wave-guide capillary cell 212(1988)245
- Titrimetry; Antipyrinylazo and thiazolylazo compounds; Bismuth; Copper; Synthesis 212(1988)253

- Hydrocortisone; Prednisolone; Tetrazolium salt 212(1988)273
- Kinetic analysis; Thiobenzamides; Catalysis, Partition coefficients 212(1988)279
- Flow system; Calcium; Magnesium; Waters; Simultaneous 212(1988)291
- Kinetic analysis; Ethanol; Fermentation media; Glucose; Enzymatic 213(1988)61
- Flow system; Dispersion behaviour; Impulse/response functions; Fourier algorithm 214(1988)77
- Flow system; Biotechnology assays; High-sensitivity flow injection; Macromolecules 214(1988)87
- Flow system; Dispersion 214(1988)97
- Flow system; Conductometry; Potentiometry; Fluorimetry; Automated micro batch analyser; Microcomputer control 214(1988)107
- Flow system; Ion exchange; Ammonium ions; Gas-diffusion separation 214(1988)121
- Flow system; Chemiluminescence; Lactic acid fermentations; In-line monitoring 214(1988)137
- Flow system; Fluorimetry; Enzyme reactor; Ethanol; Linear and cyclic 214(1988)161
- Flow system; Iron; Nickel; Doublet peaks 214(1988)197
- Flow system; Amines; Nitrite; Aromatic primary 214(1988)207
- Flow system; Ion exchange; Copper; Integrated reaction, Unsegmented 214(1988)217
- Flow system; Capillary digester; Phosphorus; Waters 214(1988)229
- Kinetic analysis; Flow system; Ion exchange; Molybdenum; Plants 214(1988)239
- Flow system; Molasses; Sucrose; Sugar-cane juice 214(1988)247
- Flow system; Cyanide; Microporous membrane; Thiocyanate 214(1988)259
- Flow system; Catalysts; Dental alloys; Palladium 214(1988)271
- Flow system; Ion exchange; Geological samples; Preconcentration; Uranium 214(1988)279
- Flow system; Extraction; Potassium; Sodium; Waters; Silica column 214(1988)289
- Flow system; Membrane-separation; Trace organic compounds 214(1988)299
- Flow system; Octanol-water partition coefficients; Dialyzer 214(1988)315
- Flow system; Large-bore systems 214(1988)391
- Flow system; Electrolytic dissolution; Molybdenum; Steels 214(1988)397
- Flow system; Ammonia; Field monitor; Waters 214(1988)401
- Flow system; Fluoride 214(1988)433
- Flow system; Brine; Calcium; Magnesium; Preconcentration 214(1988)439
- Flow system; Chloride; Detection limit 214(1988)447
- Flow system; Glucose; Plasma 214(1988)455
- Ion exchange; At. abs. spectrometry; Manganese metal; Trace elements 215(1988)111
- Cinchona alkaloids; Chiral organic anion extractants; Extraction; Ion-pair 215(1988)119
- Formaldehyde; Using formaldehyde dehydrogenase 215(1988)249
- Flow system; Membrane reactor; Pulsed reagent introduction 215(1988)277
- Ion exchange; At. abs. spectrometry; Manganese metal; Trace elements 215(1988)317
- Hydrogen peroxide; Hydroperoxyl ion; Molar absorptivities 215(1988)325
- Ozone; Waters; Indirect 215(1988)353
- Flow system; Enzymatic assays; Review 216(1989)257
- Flow system; Amperometry; Review; Unstable reagents 216(1989)289
- Flow system; Kinetic analysis; High-purity chemicals; Manganese; Catalytic effect 217(1989)23
- N.m.r. spectrometry; I.r. spectrometry; Calcichrome structure 217(1989)31
- Air; Organophosphorus compounds; Inhibition of cholinesterases 217(1989)43
- Flow system; Perchlorate; With Brilliant Green 217(1989)177
- Flow system; Permanganate 217(1989)183
- Optical membrane; Trinitrotoluene; Waters; Clear, Amine-containing poly(vinyl chloride) 217(1989)217
- Flow system; Proteins 217(1989)359
- Extraction; Palladium 218(1989)111
- Flow system; Body fluids; Urea; Urease reactor 218(1989)151
- Amines; Primary and secondary aliphatic 218(1989)157
- Gas chromatography; H.p.l.c.; Tetraalkylammonium sulphonates 218(1989)241
- Flow system; Enzyme reactor; Glucose; Characterization of activity 218(1989)291
- Kinetic analysis; Flow system; Self-modeling curve resolution 218(1989)303
- Kinetic analysis; Acetaminophen; Pharmaceuticals 218(1989)313
- Extraction; Hydrogen peroxide 218(1989)331
- Carboxyl groups; Polymers 219(1989)161
- Extraction; Iron; Molten biphenyl/naphthalene 219(1989)171
- Flow system; Iron; Waters; Wine; Integrated retention 219(1989)231
- Extraction; Fabric conditioners; Hair conditioners; Quaternary ammonium salts; Tertiary alkylamines 219(1989)239
- Extraction; Molybdenum; Steels 219(1989)323
- Flow system; Fluoride; Waters 219(1989)329
- Flow system; Iron; Waters; Sandwich techniques 219(1989)345
- Flow system; Dispersion parameters; Prediction 220(1989)43
- Flow system; Organic solvents; Water traces 220(1989)55

- Flow system; Cyanide; Thiocyanate 220(1989)65
- Flow system; Parenteral solutions; Sodium hydrogensulphite 220(1989)281
- Flow system; Carboxylic acid; Food; Soil; Citric acid 221(1989)19
- Aluminium; Ethyl tetrabromophenolphthalein; Nickel ion; Pyridylphenyltriazine; Steel 221(1989)109
- Ammonium ion; Indophenol blue; Salicylate, Nitroprusside 221(1989)147
- Flow system; Ammonia; Urea 221(1989)173
- Germanium; Phenylfluorone 221(1989)183
- Coulometry; Voltammetry; Bicinchoninic acid; Protein 221(1989)223
- Physicochemical experiment; Rate constant 221(1989)319
- Flow system; Controlled-pore glass; Malate dehydrogenase 221(1989)337
- Hydrogen cyanide; Impregnated bead detector; Sensor 222(1989)63
- Flow system; Calcium; Lanthanum 222(1989)205
- Crown ether; Thallium 222(1989)215
- Flow system; Fungicide; Malachite green; Manganese ethylenedisithiocarbamate; Periodate 222(1989)269
- Multicomponent analysis; Rare earth elements; Simplex method 222(1989)323
- Fourier-transform filter; Polynomial filter; Savitzky-Golay filter 222(1989)335
- Multicomponent analysis; Precision, Accuracy 222(1989)347
- Principal components; Titrimetry; Copper; Ethanolamine; Salicylate 223(1989)257
- Factorial design; Hydrogen peroxide; Oxalic acid 223(1989)283
- Arylamine; Micelle; Sulphonamide; Diazotization, Pharmaceutical preparation 223(1989)327
- Binary mixture; Derivative spectrum 223(1989)395
- Aluminium; Simplex optimization 223(1989)403
- Flow system; Calcium; Magnesium; Diode-array, Arsenazo 224(1989)23
- Benzodiazepine; Microwave oven; Benzophenone 224(1989)123
- Kinetic analysis; Ascorbic acid; Hexacyanoferrate 224(1989)211
- Kinetic analysis; Acetaminophen; Iron complex; Serum, Pharmaceutical preparation 224(1989)339
- Kinetic analysis; Haemoglobin; Methaemoglobin; Whole blood 224(1989)351
- Kalman filter; Matrix effect; Simplex optimization 225(1989)37
- Flow system; Kinetic analysis; Hydrazine; Phenylhydrazine; Diode-array 225(1989)115
- Flow system; Cobalt; Ethylenebis(triphenylphosphonium) cation; Extraction 225(1989)123
- Liquid chrom.; Ergosterol; Yeast cells 225(1989)129
- Liquid chrom.; T.l.c.; Carazolol; Pig kidney; Tranquillizer 225(1989)137
- Flow system; Dichromate; Extraction; Tetramethylenebis(triphenylphosphonium) cation 225(1989)241
- Flow system; Ion exchange; Nitrate 225(1989)331
- Flow system; Chlorate; Chlorite 225(1989)437
- Flow system; Bismuth; Tetramethylenebis(triphenylphosphonium) cation 225(1989)449
- Kinetic analysis; Micelle; Iron; Pyrocatechol violet complex 226(1989)137
- Copper complex; Optical waveguide; Sensor; Sulphur dioxide 226(1989)153
- Dextromethorphan hydrobromide; Pharmaceutical preparation; Phenylpropanolamine hydrochloride; Second-derivative 226(1989)159
- Caustic scrubbing liquor; Mercaptan; Sulphide; Simultaneous determination 226(1989)165
- Flow system; Boron; Soil; Ultrasonic leaching 226(1989)221
- Extraction; Hydroxyquinoline; Multicomponent analysis; Trace metals 226(1989)271
- Dinitrocatechol; Flotation separation; Niobium; Oxalate; Rhodamine B 226(1989)281
- Artists' paint; Organic pigment; Derivative, Reflectance 226(1989)293
- Potentiometry; Stability constant 226(1989)323
- Chemiluminescence; Immunoassay; Nortestosterone; Enzyme 227(1989)109
- Flow system; Field monitor; Nitrate; River water 227(1989)379
- I.r. spectrometry; Chlorotriazine; Immobilization; Silica gel; Trihydroxyazobenzene; Diffuse-reflectance 228(1990)235
- Bromopyridylazodiethylaminophenol; Nuclear reprocessing; Uranium 228(1990)279
- Flow system; Sulphate; Water 228(1990)287
- Kinetic analysis; Copper; Hydroxybenzaldehyde azine 229(1990)107
- Acidity; Kinetics; Molybdate; Phosphoantimonylmolybdenum blue 229(1990)115
- Quaternary ammonium cation; Tetraiodopalladate; Liquid-liquid distribution 229(1990)121
- Flow system; Multi-component analysis; Nitrophenylhydrazine; Diode-array 229(1990)177
- Liquid chrom.; Dermatological preparation; Tolnaftate; Undecenoic acid 229(1990)255
- Titrimetry; Fibre optic; pH; Sensor; Acid-base 230(1990)35
- Flow system; Kinetic analysis; Iron; Leucomalachite green; Peroxodisulphate 230(1990)113
- Flow system; Aluminium; Xylenol orange; Zinc; Light emitting diode 230(1990)125
- Kinetic analysis; Biacetyl; Serum; Urea 230(1990)145
- Flow system; Crown ether; Extraction; Lead; Preconcentration 230(1990)157

- Flow system; Biosensor; Immobilized enzyme 230(1990)199
- Alcohols; Phase-transfer catalysis; Dithiocarbonate 230(1990)203
- Flow system; pH; Waters; Lake, Dye reagents 231(1990)21
- Tantalum; 4,5-Dibromo-*o*-nitrophenylfluorone 231(1990)101
- Flow system; Ethanol; Blood; Enzyme reactor; Dialyser; Immobilized, Alcohol dehydrogenase 231(1990)115
- Alkylchloramines; Chloramines 231(1990)161
- Flow system; Biological membranes; Proteins; Peptides; *o*-Phthaldialdehyde, Post-column reaction, Subcellular particles 231(1990)249
- Fluorimetry; I.r. spectrometry; N.m.r. spectrometry; Fulvic acids; Laurentian, Colour origin 232(1990)43
- Clostridiopeptidase A; Collagenase; Enzyme amplification; Solid-supported, Single-enzyme, Multi-enzyme 232(1990)273
- Flow system; Acetyl-coenzyme A; Immobilized, Phosphotransacetylase, CoA-SH, Ellman's reagent 232(1990)281
- Flow system; Rhenium; Extraction; Crown ethers; Potassium perhenate, Brilliant Green 232(1990)287
- Waters; Sea water; Nitrite; Azo dyes; Formation kinetics, *N*-1-Naphthylethylenediamine, Sulphanilamide 232(1990)345
- Selenium; Catalysis; Resazurin reduction, Sulphide 232(1990)351
- Chromatography; Copper; Zinc; Cadmium; Preconcentration; Extraction; Reversed-phase partition, 2-(5-Bromo-2-pyridylazo)-5-dimethylaminophenol stationary phase 232(1990)393
- Theobromine; Caffeine; Cocoa beans; Chloroform extraction 232(1990)409
- Flow system; Kinetic analysis; Reserpine; Catalysts; Manganese; Continuous-flow analysis, Manganese oxide reactor 233(1990)235
- Derivative spectroscopy; Sulphonamide; Pharmaceuticals; Bratton-Marshall reaction, Urine, Honey 233(1990)289
- Flow system; Liquid chrom.; Mass spectrometry; Extraction; Organic pollutants; Pesticides; Chlorinated phenoxy acids; Waters; On-line continuous-flow, Organophosphorus 234(1990)119
- Flow system; Capillary flow cell; Pesticides; Optical fibres 234(1990)141
- Flow system; Schlieren effect; Diode-array, Dual-wavelength 234(1990)153
- Flow system; Amperometry; Potentiometry; Power plants; Process analysis; Water-steam cycles; pH; Ion-selective electrodes; Control parameters 234(1990)167
- Liquid chrom.; Amperometry; Coulometry; Thienodiazepines; Pharmaceuticals 234(1990)175
- Flow system; Boron; Waters; Preconcentration; Azomethine-H complex 234(1990)199
- Computer program; LESSDAD, Least squares 234(1990)381
- Copper; Alkanohydroxamic acids; Computer program; LESSDAD, Least squares 234(1990)387
- Diode-array UV-visible spectrophotometer; Precision 234(1990)395
- Kinetic analysis; Nitrite; Water; Food; Sausage, Potassium bromate, Thionine 234(1990)403
- Flow system; Phosphorus; Waters; Photodiode detector, Simplex reagent optimization, Silicate interference, Molybdophosphate 234(1990)409
- Enzyme reaction; Aspartame; Food; Peptidase cleavage, Glutamate oxidation 234(1990)465
- Rare earth elements; Chromogenic reagents; Ill-conditioned system calibration; Calibration 234(1990)483
- Liquid chrom.; Amperometry; Copper; Iron; Waters; Biological materials; Extraction; Cupferron derivatization 235(1990)279
- Turbidimetry; Lignin; Proteins; Wood 235(1990)299
- Microemulsions; Aniline; Vegetable oils; Diazotization, Coupling, Phase diagrams, Corn oil 235(1990)317
- Flow system; Kinetic analysis; Manganese; Waters; Stopped-flow method, Gradient calibration 235(1990)323
- Flow system; Lysine; Amino acids; Enzyme reactor 235(1990)329
- Flow system; Computer simulation; Error analysis; Signal processing; Iron(II)-*o*-phenanthroline, Azo dye 235(1990)337
- Thermal lens; Argon ion laser, Helium-neon laser, Multi-wavelength 235(1990)445
- Potassium; Ion sensor; Lipophilic anionic dye; *N*-2,4-Di-nitro-6-octyloxyphenyl-2',4'-dinitro-6'-trifluoromethylphenylamine, Neutral ionophore, Dibenzo-18-crown-6, Valinomycin 237(1990)155
- Kinetic analysis; Vanadium; Micellar catalysis, Chemical catalysis, *p*-Phenetidine, Catechol, Bromate oxidative coupling, Cetylpyridinium chloride surfactant 237(1990)207
- Spectral library search; Singular values, Eigenvectors, Spectral subtraction 237(1990)223
- Copper; Tetrathio ethers, cyclic; Extraction; Liquid-liquid 237(1990)245
- Rocks; Minerals; Phosphorus; Decomposition, Room temperature 237(1990)251
- Kinetic analysis; Sulphonamides; Pharmaceuticals; Azo dye, Continuous addition of reagent 237(1990)353
- Flow system; Polyamines; Amine oxidases; Enzyme reactor; Cells; Immobilized, Hydrogen peroxide, Sepharose 237(1990)391
- Gold; Extraction; Ores; Amidines; Methylene blue, Diphenylbenzamidine 237(1990)491
- Flow system; Chemiluminescence; Enzyme reactions; Glucose; Serum; Mimetic peroxidase, Hydrogen peroxide, Luminal 237(1990)497
- Flow system; Urea; Enzyme reactor; Serum; Gas diffusion, Urease 237(1990)503
- Process analysis; Cyanide; Membrane separation; Ores; Metallurgical samples; PTFE membrane, HCN diffusion 238(1990)117
- Flow system; Sulphite; Brine; Potassium chloride; Process analysis; 5,5'-Dithiobis(2-nitrobenzoic acid) 238(1990)171



Flow system; Aluminium; Waters; Pyrocatechol violet, Field monitor 238(1990)177

Flow system; Segmental flow injection; Amino acids, Tea, Ammonia, Waters, Copper, Vanadium 238(1990)183

Ion exchange; Chromatography; Aluminium; Preconcentration; Pyrocatechol violet, Aqueous samples 238(1990)279

Flow system; Enzyme reactor; Lactic acid; Glucose; Serum; Sequential determination, Diode-array, Controlled-pore glass, Co-immobilization 238(1990)411

Potentiometry; Monte Carlo simulation; Precision, Data acquisition, Optimization 239(1990)53

Kalman filter; Acidity constants; Multicomponent analysis; Noise removal; Method comparison 239(1990)95

Flow system; Silicate; Waters; Rhodamine B 239(1990)151

Flow system; Flow gradient; Unsegmented flow, Concentration gradient, Metal complexes, Acidity constants 239(1990)211

Continuous addition of reagent technique; Differential reaction-rate methods; Copper; Iron; Serum; Pyridoxal thiosemicarbazone, Complex formation 239(1990)221

Flow system; Potentiometry; Voltammetry; Detectors; Ion-sensitive field effect transistors; Impulse-response functions 239(1990)245

Uranium; Waters; Ion exchange, Arsenazo III 239(1990)321

Raman spectrometry; Flow system; Dimethyldiphenylbenzidine; Electrolysis; Electrooxidation; Homogeneous solution, Time-resolved 240(1991)329

Flow system; Calibration; Interferences; Curvature correction, Gradient ratio calibration, Chloride, Phosphate 241(1990)15

Lasers, tunable diode; Simplex optimization; Nitrogen oxides; Sweep averaging 241(1990)83

Lasers, tunable diode; Nitric acid; Air; Temperature sweep tuning 241(1990)95

Cyanide; Fibre-optic chemical sensors; Metalloporphyrins; Corrins 241(1990)119

Potassium; Cryptahemispherplexes; Chromogenic, Cryptand, Spherand 241(1990)127

Algorithm, recursive; Signal averaging; Standard deviation 242(1991)17

Stability constants; *p*-Nitrophenol adducts; Multiwavelength data treatment 242(1991)57

Preconcentration; Trace elements; Copper; Reductive matrix precipitation, Copper oxide, Copper thiocyanate 242(1991)99

Derivative spectroscopy; Dissociation constants; Phenothiazines; Sparingly soluble 242(1991)131

Flow system; Arylamines; Sulphonamides; Diazotization, Coupling, Micellar medium 242(1991)143

Flow system; Kinetic analysis; Fluorimetry; Review; Stopped-flow technique 242(1991)147

Osmium; Flotation; Crystal Violet, Malachite Green 242(1991)185

Acetylmuramic acid; Hydrolysis, Complex molecules 242(1991)221

Nitrite; Waters; 3-Nitroaniline 242(1991)225

Titrimetry; Oxalate; Hydrogen peroxide; Thallimetric photochemical oxidation 242(1991)229

I.r. spectrometry; Mass spectrometry; Iron(II) complexes; Ethanedial; Glyoxal; Aminophenanthroline; Carbon paste electrodes; Redox mediators 242(1991)233

Kinetic analysis; Norbornadiene derivatives; Tetraphenylporphinecobalt(II); Photochromism; Porous glass beads, Immobilized 243(1991)97

Substrate-tether systems; Aromatic diazonium ions, Immobilized probe 243(1991)103

Thermal lens; Semiconductor laser; Iron; 2-Nitroso-5-diethylaminophenol 243(1991)109

Flow system; Ascorbic acid; Vitamin C tablets 243(1991)187

Hydrogen peroxide; Enzyme reactions; Glucose; Leuco Patent Blue Violet, Peroxidase 243(1991)217

Waters; Phosphorus; Long capillary cell detector 244(1991)63

Diffuse reflectance; Chlorine; Optical fibre sensor; *o*-Toluidine, Nylon strip, Dry reagent 244(1991)71

Kinetic analysis; Multi-component analysis; Formaldehyde; Acrolein; Wavelength-pair method, Diode-array detection 244(1991)81

Kinetic analysis; Vanadium; 1,4-Dihydroxyphthalimide dioxime oxidation, Bromate, Vanadium catalysis 244(1991)89

Flow system; Sulphate; Waters; In-line preconcentration, Anion-exchange resin, Methylthymol blue-barium complexation 244(1990)109

Drug-macromolecule binding parameters; Binding parameters; Numerical analysis; Scatchard plot, Phenylbutazone, Oxyphenbutazone 244(1991)145

Cobalt; Derivative spectroscopy; Complexation; Nitropyridylhydrazones 244(1991)223

Kinetic analysis; Osmium; Pyrogallol red oxidation, Bromate, Osmium catalysis 244(1991)231

Kinetic analysis; Amines; Stopped-flow, Dialkylthiocarbamates 244(1991)239

Copper chelates; Formation constants; Stereoselective adduct formation,  $\alpha$ -Acylcamphorato chelates, Chiral Lewis bases 244(1991)289

Zirconium; Hafnium; Extraction; Dicyclohexyl-18-crown-6; Crown ether 245(1991)27

At. abs. spectrometry; Rocks; Geological samples; Microwave acid digestion 245(1991)43

Flow system; Chloride; Bromide; Waters; Mercury(II) and silver thiocyanate minicolumns 245(1991)115

Nitrogen dioxide; Thermal lens; Pulsed carbon dioxide laser, Excimer-laser-pumped 245(1991)191

Time-resolved absorption spectra; Electrolysis; Dichloroanthracene; Xenon pulse-flash lamp, Millisecond reactions 245(1991)199

Enantioselective optode; Tartrate; 1-Phenylethylamine, Propranolol, Norephedrine 246(1991)251

Air; Fibre-optic sensor; Hydrogen cyanide; Automatic detection, Light-emitting diodes 246(1991)259

Flow system; Dyes; Surfactants; Quaternary ammonium, Sodium dodecyl sulphate 246(1991)333

Borate; Diborane; Hydride generation; Boric acid 246(1991)413

Acid-base equilibria; Azo dyes; Dissociation constants; Aqueous dimethylformamide 246(1991)429

Amino acids; Dithiocarbamates 246(1991)443

Chemiluminescence; Flow system; Biomass; Fermentation; Glucose; Lactic acid; Lactate; Gradient dilution, Hydrogen peroxide 247(1991)45

Flow system; Enzyme reactor; Malic acid; Wines; Stopped-flow, Malate dehydrogenase, Malolactic fermentation 247(1991)61

Iron; Sea water; Waters; Ferrozine, Sep-Pak cartridge 247(1991)125

Flow system; Fluorimetry; Iodate; Iodide; Cerium(IV) catalytic reduction, *p*-Aminophenol colour reaction 248(1991)219

Ascorbic acid; Dichlorophenolindophenol, Iron interference 248(1991)225

Nitrate; Phosphate; Reference materials; Sea water; Auto-claving 248(1991)277

Chromium; Galacturonic acid; Reduction, Complexes, Stability constants 248(1991)301

Multivariate calibration; Partial least-squares regression; Scaling methods 248(1991)459

Flow system; Extraction; Partition coefficients; Octan-1-ol-water 248(1991)493

Extraction; Vanadium; Adogen-464, Adipate complex 248(1991)507

Extraction; Membrane filtration; Niobium; Phenylfluorone complex, Zephramine 248(1991)529

Derivative spectroscopy; Pharmaceuticals; Vitamins; Third-derivative 248(1991)583

Flow system; Bioprocess monitoring; Fermentation; Glucose ammonia proteins; Process analysis; Diode-array, Stopped-flow 249(1991)77

Flow system; Acetate; Fermentation; Phosphate; Process analysis; *E. coli* 249(1991)101

Flow system; Fluorimetry; Ethanol; Fermentation; Foods; Fruit juices; Glucose; Process analysis; Pullulan; Sucrose; Microorganism filtration unit, Baker's yeast 249(1991)137

Flow system; Aldehydes; Enzyme reactor; Immobilized yeast aldehyde dehydrogenase, Controlled-pore glass 249(1991)145

Furazolidone; Metronidazole; Tablets, *K*-matrix method 249(1991)349

Flow system; Turbidimetry; Plant materials; Sulphur; Waters; Two-line manifold 249(1991)479

Emission spectrom.; Geological materials; Plasmas; Silica; Centrifugation, Differentiation of colloidal and dissolved silica, Filtration, Inductively coupled, Tuffs 249(1991)509

Calcium; Magnesium; Waters; PAR complexes 249(1991)513

Chlorine species; Free chlorine; Acid Yellow 17, *N,N*-Diethyl-*p*-phenylenediamine, Leuco crystal violet 249(1991)519

Aluminium; Thermal lens; Mode mismatched 250(1991)95

Flow system; Fluorimetry; Raman spectrometry; I.r. spectrometry; Mass spectrometry; Molecular spectroscopic detection; Sample introduction 250(1991)157

## T

### Thermometric analysis

Aerobic and anaerobic wastewater-treatment; Biological activity; Flow microcalorimetry 213(1988)165

Flow system; Enzyme Reactor; Pyrophosphate; Thermistor 214(1988)409

Potentiometry; Titrimetry; Computer program 222(1989)385

Capillary melting-point apparatus; Calibration; Thermometers; International Temperature Scale, Fluxed highly pure metals 237(1990)241

Process analysis; Biosensor; Enzyme thermistor; Sugars; Glucose, Maltose, Sucrose, Fermentation 238(1990)211

Polarography; Aromatic compounds; Biosensors; Oxygen electrode; *Pseudomonas cepacia*; Calcium alginate gel, Metabolism 249(1991)17

### Thin-layer chromatography

Spectrophotometry; Isoniazid; Pharmaceuticals; Second-derivative, Scraped-spot 201(1987)357

Phosphorimetry; Methylumbelliferone; Low-temperature 212(1988)213

H.p.l.c.; Gas chromatography; Review; Supercritical-fluid 216(1989)109

Gas chromatography; Mass spectrometry; Pattern recognition; Spatial resolution; Secondary ion, Phase-transition matrix 218(1989)217

Mass spectrometry; Peptides; Steroids; Surface derivatization; Secondary ion 218(1989)231

Amino acid; Optimization function; Multidimensional 223(1989)411

Kinetic analysis; Amino acid; Ninhydrin 224(1989)315

Liquid chrom.; Spectrophotometry; Carazolol; Pig kidney; Tranquillizer 225(1989)137

Fluorimetry; Phosphorimetry; Amino acid; Coumarinsulphonyl chloride; Ion-pair 227(1989)155

Fluorimetry; Blood; Glutathione 227(1989)203

Chromatography; Sample preparation; Planar chromatography 236(1990)83

Transition metals; Halo complexes, Sulphuric acid 246(1991)451

### Titrimetry

Kinetic analysis; Catalytic end-point detection; Review 202(1987)1

Coulometry; Spectrophotometry; Amperometry; Cell design 202(1987)75

- Basicity; Lysine; Proteins; Nonaqueous 202(1987)159
- Coulometry; Potentiometry; Alkali metal halides; Trivalent metal sulphates; Hydrogen/palladium electrode 202(1987)231
- Catalytic end-point detection; Chromium; Compleximetric 203(1987)91
- I.r. spectrometry; N.m.r. spectrometry; Mass spectrometry; Quinoline derivatives; Oxidation by vanadium(V) 204(1988)77
- History of titrimetry 206(1988)97
- Potentiometry; Equivalence volumes; Review 206(1988)111
- Acid-base; Partial-least-squares 206(1988)125
- Voltammetry; Nitrating acids; Process industry 206(1988)137
- Anod. stripping voltammetry; Equivalence point 206(1988)153
- Beryllium 207(1988)361
- Potentiometry; Hexacyanoferrate(II) electrodes; Solid-state 209(1988)345
- Potentiometry; Coated wire electrode; Palladium halide complex; PVC membrane; Aluminium 209(1988)357
- Potentiometry; Monoaza crown ethers; Complexation properties 211(1988)223
- Voltammetry; Complexation in natural waters; Computer simulation of errors; Waters; Stripping 212(1988)1
- Potentiometry; Copper interactions with ligands; Humic-like substance, Fulvic acids 212(1988)105
- Spectrophotometry; Antipyrinylazo and thiazolylazo compounds; Bismuth; Copper; Synthesis 212(1988)253
- Acidity; Rain; Substitution approach 217(1989)303
- Potentiometry; Calcium; Magnesium; Waters 218(1989)47
- Amperometry; Silver; Square-wave 219(1989)37
- Potentiometry; Calcium; Oil-based drilling fluids 219(1989)147
- Potentiometry; Boron; Metal borides; Multiparametric curve-fitting 219(1989)273
- Potentiometry; Lanthanide complexation; *trans*-1,3-Cyclopentanediaminotetraacetic acid 220(1989)187
- H.p.l.c.; Gravimetry; Anions; Orthogonal regression; Waters 220(1989)207
- Potentiometry; Iodimetry 221(1989)341
- Potentiometry; Liquid-propulsion system 222(1989)379
- Potentiometry; Thermom. analysis; Computer program 222(1989)385
- Principal components; Spectrophotometry; Copper; Ethanolamine; Salicylate 223(1989)257
- Piston burette; Sodium hydroxide; Calibration 223(1989)461
- Potentiometry; Gran plot 225(1989)205
- Flow system; Free acidity; Oil 225(1989)431
- Potentiometry; Diquat; Ion-pair; Paraquat; Bisquaternary cation 226(1989)177
- Piezoelectric crystal; Acid-base 229(1990)205
- Spectrophotometry; Fibre optic; pH; Sensor; Acid-base 230(1990)35
- Piezoelectric crystal; Compleximetric, Precipitation 230(1990)51
- Conductometry; Humic acids; Polyelectrolytes 232(1990)141
- Humic substances; Ion binding; Intrinsic affinity distributions 232(1990)189
- Conductometry; Potentiometry; Phenolic acids; Triethylamine, Tetrabutylammonium hydroxide 234(1990)339
- Amperometry; Polarography; Colloidal electrolytes; Dodecylquinolinium bromide; Potassium dichromate, Potassium hexacyanoferrate(III), Ammonium molybdate 236(1990)325
- Potentiometry; Chromium; Steel; High-alloy, Reference method, Dissolution 236(1990)399
- Boron preservatives; Wood; Collaborative studies; Statistical analysis; Quality control; Boric acid 236(1990)423
- Coulometry; Ion-selective field-effect transistor; Migration effect; Modelling, Sensor-actuator, Diffusion, Simulation, Nernst-Planck equations 237(1990)71
- Potentiometry; Oxygen; Superconductors;  $x$  in  $\text{YBa}_2\text{Cu}_3\text{O}_{6.5+x}$  237(1990)421
- Ion exchange; Chromatography; Process analysis; Gas treatment; Sulphur; Thiols; Automated titrator 238(1990)161
- Conductometry; Anions; Tetra-*n*-octylammonium fluoride; Long-chain quaternary ammonium fluorides 238(1990)389
- Spectrophotometry; Oxalate; Hydrogen peroxide; Thallimetric photochemical oxidation 242(1991)229
- Thiuram disulphides; Iodine-azide reaction, Induction coefficients, Dithiocarbamates 243(1991)201
- Coulometry; Silver; Iron; Steel; Hydrogen sulphide 244(1991)59
- Potentiometry; Semiconductors; Gallium arsenide; Stoichiometry; Arsenic 244(1991)247
- Potentiometry; Superconductors; Stoichiometry; Copper, Oxygen content,  $\text{YBa}_2\text{Cu}_3\text{O}_y$  244(1991)253
- Conductimetry/oscillometry; Iron; Piezoelectric detection; Dichromate, Permanganate, Redox 246(1991)421
- Conductimetry/oscillometry; Piezoelectric detection; Iodimetry; Thiosulphate, Thiocyanate, Ascorbic acid, Linear extrapolation 246(1991)425
- Algorithm; Copper complexes; Factor analysis; Multi-equilibria systems 248(1991)447
- Potentiometry; Conductimetry/oscillometry; Mesoionic compounds; Photographic additives; Silver complexes; Triazolium thiolate complexes; Stability constants, Ostwald ripeners 248(1991)603
- Potentiometry; Hydrogen bonding; Schiff bases; Half-neutralization potentials, Perchloric acid titration 249(1991)427
- Turbidimetry**
- Spectrophotometry; Lignin; Proteins; Wood 235(1990)299
- Flow system; Bioprocess monitoring; Fermentation; Process analysis; Proteins; Pullulanase isoenzymes, Monoclonal antibodies 249(1991)113
- Flow system; Spectrophotometry; Plant materials; Sulphur; Waters; Two-line manifold 249(1991)479

# V

## Voltammetry

see also Anodic stripping voltammetry, Cyclic voltammetry, Differential pulse voltammetry

Adenine; Adenosine; Cathodic and anodic stripping, Copper(I) compounds 201(1987)11

Extraction; Sea-water; Selenium; Differential-pulse cathodic stripping 201(1987)33

Speciation; Waters; Trace metal, Adsorptive stripping, Chelates of solochrome violet RS 201(1987)43

Chlordiazepoxide; Serum; Adsorptive stripping, Hanging mercury drop electrode 201(1987)275

Digital simulation; Probability theory; Theoretical analysis of response 201(1987)295

Oxyethylated alcohols; Tensammetry; Accumulation, Hanging mercury drop electrode 202(1987)85

Oxyethylated alcohols; Tensammetry; Accumulation, Hanging mercury drop electrode, Mixtures 202(1987)97

H.p.l.c.; Dacarbazine; Serum 202(1987)141

H.p.l.c.; Purines 202(1987)167

Anod. stripping voltammetry; Metal alloys; Trace metals; Second-harmonic phase-selective a.c. 204(1988)189

Aniline; Carbon-paste electrode, *N*-Alkylated derivatives, Adsorption/extraction 204(1988)201

Coulometry; Mercaptoethanol; Anodic behaviour 206(1988)65

Biological molecules; Organic donor-acceptor electrodes 206(1988)75

H.p.l.c.; Foods; Disaccharides; Monosaccharides; Physiological fluids; Electrocatalytic chemically modified electrode 206(1988)85

Titrimetry; Nitrating acids; Process industry 206(1988)137

Carbon paste electrodes; Phase-sensitive alternating current, Background current 206(1988)385

Glassy carbon electrodes; Review; Surface preparation 207(1988)1

Organic micropollutants; Phospholipid-coated mercury electrodes; Waters 207(1988)47

Ion exchange; Mercury; Silver; Zeolite-containing carbon-paste electrodes; Preconcentration 207(1988)95

Cobalt; Plants; Adsorption stripping 207(1988)103

Iron pyrite; Sulphide minerals; Cationic surfactants 207(1988)311

Selenium; Cathodic stripping, Adsorptive stripping 208(1988)231

Platinum; Sea water; Cathodic stripping 211(1988)129

D.c. polarography; Diff. pulse polarography; Uracil derivatives; Cathodic stripping 211(1988)155

H.p.l.c.; Flow system; Blood; Uracil derivatives; Urine; Differential pulse, Cathodic stripping 211(1988)175

Technetium; Glassy carbon, Tri-*n*-octylphosphine oxide, Differential-pulse, Cathodic stripping 211(1988)317

Titrimetry; Complexation in natural waters; Computer simulation of errors; Waters; Stripping 212(1988)1

Potentiometry; Carbon fibre electrodes; Hydrogen ion concentration 212(1988)23

Nitrite; Seawater; Waters; Cathodic stripping 212(1988)31

Raman spectrometry; Electrochemical mechanism elucidation; Real-time surface-enhanced, Linear-sweep 212(1988)201

Bovine serum albumin; Adsorptive stripping 212(1988)355

Chloroform; Cresol; Enzyme electrode; Waters 213(1988)113

Electromagnetic entrapment of biocatalyst; Enzyme electrode; Glucose; Magnetic beads 213(1988)121

Potentiometry; Flow system; Fluorimetry; Bioreactors; Yeasts; High-performance, On-line sensors 213(1988)199

Gas chromatography; Potentiometry; Microbial reaction rates; Sediment suspensions; Apparatus 213(1988)221

H.p.l.c.; Immunoassay; Aminophenyl phosphate substrate; Digoxin 214(1988)187

Catechol compounds; Stripping, Adsorptive accumulation 215(1988)29

Halides; Spinal fluid; Waters; Cathodic stripping 215(1988)307

Review; Steady-state 216(1989)177

Coumarins; Micellar and emulsified media 216(1989)231

Kinetic analysis; Metalloporphyrin modified glassy carbon electrodes; Urine 217(1989)343

Planar electrochemical microcell; Surface modification 219(1989)45

Potentiometry; Computerised system; Nickel; Chronopotentiometric experiments 219(1989)105

Flow system; Alkali metal ions; Alkaline earth metal ions; Glassy carbon fibres 220(1989)269

Amperometry; Ion exchange; Nafion; Sensor; Low-conductivity solvent 221(1989)27

Autocatalytic effect; Nitrate; Water; Second-sweep cyclic voltammetry, Mercury drop electrode 221(1989)131

Coulometry; Spectrophotometry; Bicinchoninic acid; Protein 221(1989)223

Adsorptive collection; Sea water; Titanium; Cathodic stripping voltammetry 221(1989)269

Natural waters; Synergic adsorption; Uranium 221(1989)279

Microscopy; Iridium; Mercury film electrode 221(1989)305

Adsorptive collection; Sea water; Tin; Cathodic stripping voltammetry 222(1989)43

Alkaline earth metal ion; Alkali metal ion; Electrochemical pretreatment; Glassy carbon fibre 222(1989)127

Cyclic voltammetry; Kalman filter 223(1989)193

Triphenyltin acetate; Glassy carbon electrode 224(1989)97

Cadmium; Microcomputer 225(1989)391

Biological material; Nitric acid; Pressure decomposition 226(1989)31

Cobalt; Surfactant; Mercury electrode 228(1990)55

Diphenylcarbazone; Mercury; Modified electrode 228(1990)259

Sulphapyridine; Electrochemical oxidation, Graphite electrode 228(1990)273

Amperometry; Ascorbic acid; Multivitamin preparation; Composite electrode 229(1990)63

Benzodiazepine; Midazolam; Quality control; Adsorptive stripping 229(1990)145

Lead; Paint; Electro-oxidation, Surfactant 229(1990)291

Copper; Phenanthroline; Mercury electrode 230(1990)83

Adsorptive stripping; Ofloxacin; Pharmaceuticals 231(1990)129

Cathodic stripping; Selenium; Sea water; Waters; Copper 231(1990)221

Polarography; Phytoplankton bloom; Surface-active substances; Humic substances 232(1990)131

Waters; Sea water; Copper; Complexation, Organic ligands, Speciation, Detection window 232(1990)149

D.c. polarography; Fulvic acids; Metal-fulvic complexes; Complexants; Diffusion coefficient, Distribution function 232(1990)209

Liquid chrom.; Flow system; Wall-jet detector; Rapid scan, Convection/diffusion-controlled, Diffusion-controlled 234(1989)75

Flow system; Magnesium; Serum; Rapid scan square-wave, Thin-film deaerator, Dropping mercury electrode 234(1990)161

Anod. stripping voltammetry; Platinum-iridium electrode; Mercury film, Cyclic voltammetry 234(1990)275

Diff. pulse polarography; D.c. polarography; Potentiometry; Controlled potential electrolysis; Aziridinylquinones; Quinones; Bisaziridinylbis(ethoxycarbonylamino)benzoquinone; Diaziquone, Bioreductive alkylating quinones 234(1990)285

Hydrogen peroxide; Immobilized, Grape tissue, Catalase, Oxygen sensor, Enzyme reactor 234(1990)453

Waters; Copper; Speciation; Computer simulation; Conditional stability constant, Cathodic stripping, Sea water, Estuarine water, Freshwater, Complexation 235(1990)287

Nickel; Speciation; Air; Adsorptive stripping, Magnetic extraction 235(1990)457

Cobalt; Derivative adsorption 236(1990)453

Anod. stripping voltammetry; Electrochemical cell; Lead; Cadmium; Epinephrine; Cylindrical graphite fibre microelectrode, Square-wave 237(1990)127

Graphite electrodes; Phenols; Methoxyphenols; Polyvinylpyrrolidone coating, Anti-fouling 237(1990)141

Trace elements; Waters; Sea water; Lake water; In situ measurements, Copper, Lead, Cadmium, Zinc 237(1990)429

Milk 238(1990)357

Vanadium; Ores; Linear-sweep, 5-Br-PADAP complex 238(1990)375

Cyclic voltammetry; Adsorptive stripping; Azinphos-methyl; Guthion; Waters 238(1990)383

Cathodic stripping; Ultramicroelectrodes; Fast scan, Mercury hemispherical electrode, Silver disk electrode, Copper amalgam film electrode 239(1990)35

Flow system; Spectrophotometry; Potentiometry; Detectors; Ion-sensitive field effect transistors; Impulse-response functions 239(1990)245

Diff. pulse voltammetry; Oxazepam; Camazepam; Temazepam; Benzodiazepines; Human serum albumin, Adsorptive stripping voltammetry 244(1991)49

Autoprotolysis constant; Glass electrode; Acetonitrile; Standardization, Solvent composition, E.m.f. 244(1991)183

Flow system; Ion-sensitive field-effect transistors; Potassium; Serum; Urine; Wall-jet cell, Silicone-rubber membrane 245(1991)159

Sea water; Titanium; Cathodic stripping, Chlorate catalysis 245(1991)167

Copper; Ethylenediamine; Sea water; Rotating mercury film electrode 245(1991)177

Histidine; Nickel; Speciation; Histidine complex, Aqueous ammonia 246(1991)301

Europium; Linear-sweep, Normal-pulse, Square-wave, 2-Thenoyltrifluoroacetone complexant 247(1991)89

Computer; Kinetics; Cadmium-EDTA 248(1991)77

Nitrite; Vitamin B<sub>12</sub>; Waters 248(1991)109

Cyanide; Gold microband electrode 248(1991)173

Liquid chrom.; Extraction; Food dyes; Dynamic column solid-phase extraction 248(1991)289

Coulometry; Electrode reaction mechanisms; Expert system 248(1991)429

Biosensors; Catecholamines; Enzyme reactor; Indoleamines; Ion-selective electrodes; Monoamine oxidase, Ammonia, Rat liver 249(1991)71

Immunoassay; Cyclic voltammetry; Anti-HSA; HSA; Immunosenors; Polymer-modified electrodes; Polypyrrole 249(1991)381

Cadmium; Iridium microelectrode; Lead; Trace metals; Waters; Mercury-plated iridium disc, Square-wave stripping voltammetry 249(1991)419

Amperometry; Flow system; Nafion-coated electrodes; Pharmaceuticals; Promethazine; Cations 249(1991)489

Sea water; Trace elements; Waters; Adsorptive deposition, Cathodic stripping 250(1991)265

## X

### X-ray fluorescence spectrometry

Catalysts; Platinum; Comparison 209(1988)185



Ion exchange; Coal ash; Leach liquors 220(1989)217

E.s.r.; Coprecipitation; Manganese; Pore water 222(1989)169

Principal components; Glass-making 225(1989)69

Germanium; Polyurethane foam; Extraction; Molybdogermanate 238(1990)423

Rare earth elements; Preconcentration; Quinolin-8-ol complexes, Activated carbon 242(1991)215

Gold; Geological samples; Extraction; Tributyl phosphate, Solid extractant 243(1991)81

Calibration; Neural networks; Genetic algorithm, Backward error propagation 247(1991)97

Mass spectrometry; Glassy carbon electrodes; Scanning electron microscopy; Surface analysis; Electrochemical modification, Solid-state characterization 248(1991)127

Kalman filter; Sulfur valence states; Peak resolution 248(1991)257

